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EVALUATION OF THE PRESENCE OF SOME PATHOGENIC MICROORGANISMS IN THE AIR AND THE SURFACE OF THE FACILITIES OF THE CAGUAS GYMNASTIC CLUB

Partial requirement for the procurement of Master of Science in Environmental Management Environmental Risk Assessment and Management

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DEDICATORY

For all the people that believe in himself. We create our destiny each day during the entire life.

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TABLE OF CONTENTS

TABLE LIST	vi
FIGURE LIST	
APPENDIX LIST	viii
ABSTRACT	
RESUMEN	
	1
CHAPTER I: INTRODUCTION	
DEDICATORY	
Goal	
Objectives	9
CHAPTER II: LITERATURE REVIEW	
DEDICATORY	
DEDICATORY	
Legal framework	
CHAPTER III: METHODOLOGY	21
Field of study	
Length of time of the research	
Physical parameter procedure	
Biological parameter procedure	
CHAPTER IV: RESULTS AND DISCUSSION	
CHAPTER V: CONCLUSIONS AND RECOMMENDATIONS	
LITERATURE REVIEW	50

TABLES LIST

Table 1.	Physical characteristics of the facilities during the first, second and third monitory	56
Table 2.	Particulate matter (PM) result during the the first (A), second (B) and third (C) monitory	57
Table 3.	Exposure plate result	58
Table 4.	Sterile carpet test result	59
Table 5.	Most common pathogenic bacteria found with the Enviroswabs	60
Table 6.	Most common pathogenic fungi found in air sampling	61
Table 7.	Most common pathogenic bacteria found in air sampling	62

FIGURE LIST

Figure 1.	Aerial photo of Caguas Gymnastic Club	. 64
Figure 2.	Training area of Caguas Gymnastic Club	. 65
Figure 3.	Grid for the air sampling monitoring	. 66
Figure 4.	Grid for the physical-chemical sampling monitory	. 67
Figure 5.	Bacteria air sampling result before and after mitigation process	. 68
Figure 6.	Yeast and Mold air sampling result before and after mitigation process	. 69
Figure 7.	Proportion of fungi and bacteria after the first Enviroswabs monitory	. 70
Figure 8.	Proportion of fungi and bacteria after the first air sampling	. 71

APPENDIX LIST

Appendix 1. Particle Dust Characterization Analytical Result first monitory73
Appendix 2. Particle Dust Characterization Analytical Result second monitory
Appendix 3. Sterile carpet Analytical Report (#10554)79
Appendix 4. Enviroswabs Analytical Report (#10558, #10559)
Appendix 5. Air Sampling Analytical Report (#10330, #10332) 138
Appendix 6. Analytical Report after cleaning and disinfestations (#10846 to #10849)
Appendix 7. Cleaning Program for Caguas Gymnastic Club 208

ABSTRACT

The Environmental Protection Agency (EPA) identifies poor indoor air quality as one of the top five environmental health hazards affecting public health. The average persons spends more than 90% of their time in enclosed environments, that is why, pollutant free air in those environments should be a priority. Exposure to indoor allergens can result in allergies, asthma, bronchial hyper-reactivity, respiratory tract inflammation, dermatitis, and sinusitis. This study analyzes the indoor air quality of a gymnasium on the municipality of Caguas, Puerto Rico. Its woeful condition can expose users to pathogenic fungi and bacteria species. During this study, we measured environmental factors in six different points inside the facility including temperature, humidity, and dust characterization, CO, CO₂ and airflow. We collected 98 samples in total for the biotic parameter, 36 surface samples in areas were the athletes are in contact with gymnastic equipment such as beams, vaults, mattresses, foam pits, and others; 32 random air samples were collected and 30 random samples for Dermathophytes were also collected. We incubated all the samples and individual colonies were isolated for their identification. Results showed the identification of fungi such as Acremonium strictum, A. curvulum, Cladosporium cladosporoide, Curvularia brachyspora, C. clavata, C. senegalensis, Penicillium chrysogenum, P. citrinum, Aspergillus niger, A. clavatus. Among the most prevalent pathogenic Dermathophytes were Trichophyton soudanense, T. verrucosum, and Epidermophyton floccosum. Identified bacteria were Sphingomonas Klebsiella pneumonia, Bacillus megaterium, Serratia odorifera, paucimobilis, Micrococus luteus, Staphylococcus hominis and S. saprophyticus, among others. This study has allowed us to analyze the microbial diversity of the site and potential health risk of users and athletes. Most of the microorganism isolated during this investigation represents health problems for the children that practice in the facility. Therefore cleaning, disinfection, sanitization and anti-microbial process was performs to minimize the probability of infection by those using the facility.

RESUMEN

La Agencia de Protección Ambiental Federal (USEPA, por sus siglas en inglés) ha identificado la pobre calidad de aire anterior dentro de los 5 problemas ambientales de mayor importancia que afectan a la salud pública. Las personas pasan más del 90% de su tiempo en ambientes cerrados; por tal razón, atender los contaminantes en ambientes de interiores es una prioridad. La exposición a diferentes alérgenos pueden resultar en alergias, asma, híper-reactividad bronquial, inflamación en el tracto respiratorio, dermatitis y sinusitis. Cuando esto ocurre, la situación se conoce como Síndrome de Edificios Enfermos y Enfermedades Relacionadas al Edificio. Durante este estudio, evaluamos la calidad de aire interior del Club Gimnástico de Caguas, Puerto Rico. Las condiciones lamentables existentes en el mencionado Club, pueden exponer a los visitantes a diferentes microorganismos patogénicos. Durante el estudio medimos diferentes factores abióticos en seis localizaciones dentro de dichas instalaciones incluyendo temperatura, humedad, caracterización del polvo, CO, CO₂ y flujo del viento. Evaluamos un total de 98 muestras y medimos los parámetros físico-químicos; 36 muestras de superficies en áreas donde los atletas están en contacto directo como lo son barra, viga, matress, fosa, alfombras, entre otros. Seleccionamos de manera aleatoria 32 muestras para la toma de aire y 30 muestras para la prueba de Dermatofitos. Incubamos y aislamos todas las muestras para llevar a cabo su identificación microbiológica. Los resultados evidenciaron la presencia de hongos como: Acremonium strictum, A. curvulum, Cladosporium cladosporoide, Curvularia brachyspora, C. clavata, C. senegalensis, Penicillium chrysogenum, P. citrinum, Aspergillus niger, A. clavatus. Dentro del grupo de los Dermatofitos encontramos, Trichophyton soudanense, T. verrucosum y Epidermophyton floccosum. Además, las bacterias encontradas y que identificamos son: Sphingomonas paucimobilis, Klebsiella pneumonia, Bacillus megaterium, Serratia odorifera, Micrococus luteus, Staphylococcus hominis y S. saprophyticus, entre otras. Mediante este estudio evaluamos la diversidad microbiológica existente en las instalaciones del Club Gimnástico de Caguas para conocer si existe riesgo potencial que afecte la salud de los usuarios. Muchos de los microorganismos aislados durante la investigación representan un problema para la salud de los niños que utilizan esta instalación. Durante la investigación llevamos a cabo acciones correctivas y procesos de limpieza tales como: desinfección, saneamiento mediante técnicas que fomenten las mejores condiciones higiénicas y antimicrobianas que ayuden a combatir los microorganismos o a controlar su aparición, así lograr minimizar la probabilidad de infección en los usuarios.

CHAPTER I

INTRODUCTION

Background of the problem

During the last decades, we have seen progress in the area of science and technology brought about by the industrial revolution. As a result, global population has increased through the years. This has brought a change in the way people visualize their houses and work places leading to the excessive construction of buildings and homes. These are constructed with weather resistant materials appropriate to our tropical climate. Due to the excess of buildings in such a small island, an urban vertical growth has been noted, allowing a greater amount of people to live in smaller spaces, even forcing them to occupy the vertical space.

All these technological advances have been increasing throughout the years producing an adverse effect in the atmosphere. Air pollution can be defined; in general terms as the introduction of biological or chemicals materials and particles that causes inconvenience or harm to human beings and other living organisms, consequently, damaging our planet and the quality of natural resources. The existing contaminants in the outdoor environment will negatively influence the quality of the indoor air.

During the 70's, it was acknowledged that the quality of the air inside nonindustrial buildings, under certain circumstances like poor maintenance, is harmful to health. Exposure to indoor poor air quality pose a public health threat because the public spend 90% of their time in closed environments such as buildings. The EPA recognizes poor indoor air quality as one of the top five environmental health hazards affecting public health. According to the US Center for Disease Control, Puerto Rico has a higher overall prevalence of lifetime (19.6%) and current (11.6%) asthma than other parts of the Americas. Incidence among children's fewer than eighteens is particularly high in the eastern part of the island (Rentas, Gonzales & Vélez, 2009).

Indoor air quality is defined by the air parameters found inside buildings, businesses, schools, and homes. The source of contamination can vary they can be biological resources or chemical resources; an examples are automobiles, paint, photocopier machines, electric generators, numerous particles, fibers, dust, bacteria, fungus, or gases (EPA, 1995a). Some environmental factors such as high temperatures and humidity, if not under adequate parameters, foster the proliferation of biological contaminants that can cause long and short term health problems. Bacteria, mold, fungi, viruses, mite, cockroaches, pollen, and animal particles contributes to indoor air quality and are known as biological indicators of air quality. These contaminants greatly contribute to the symptoms of irritation or reactivity presented in persons exposed to them (Sexton & Dyer, 2004).

Although biological allergens are very important and have priority in the health area, they have certain special properties or characteristics that make them difficult to evaluate and identify. This difficulty rests on the great amount and complexity of their surface antigens and other protein molecules of these agents, being responsible not only for their pathogenic capacity but also for their difficult evaluation. Asthma is caused by the combination of genetic and environmental factor. Hakonarson and Halapi (2002) attributed the condition to the interaction among many genes and how these genes react with the environment. Different genes have been reported to show linkage of asthma and bronchial hyper-sensitivity. In the last decade significant progress has been made in the field of asthma but the clinical implication due the genetic variation remains indeterminate.

Asthma can be broken down into two groups based on the causes of an attack: extrinsic and intrinsic. Extrinsic asthma has a known cause, such as allergies dust mites, pollens, grass, weed, or pet dandruff. These individuals produce an excess of antibodies when exposed to triggers, like the previous. Intrinsic asthma has a known cause, but the connection between the cause and the symptoms is not clear because it doesn't have antibody hypersensitivity.

We can found a lot of investigation about asthma and allergies but during my research a lack of information about Dermathophytes fungi has been identified. These fungi are very important to identify because are the most common infectious agent of humans. Dermathophytes are filamentous fungi that are able to digest and obtain nutrient from keratin (the primary component of skin, hair, and nails). Dermathophytes are the only fungi that have evolved a dependency on human or animal infection for the survival of the species. *Trichophyton soudanense, Epidermophyton floccosum* and *Trichophyton verrucosum* are some of the most common fungi that inhabit the Caguas Gymnastic Club and at the same time has been identified to produce outbreak in a Judo team in Europe during 2005.

The chemical pollutants have interest in our environment due to the mixture of pollutant and have significant health effects due to the mechanism of inflammation and are responsible of a variety of environmental stressors. Some chemicals include Carbon monoxide (CO), Ozone (O_3), Particulate matter, Tobacco smoke, Volatile Organic

Compounds (VOC's), Radon, Pesticides, Asbestos, Lead, and Arsenic. The physiological effects of these contaminants are numerous; they can trigger asthma, and irritate eyes, nose, throat, respiratory illnesses and lung cancer (Clifford et al., 2009).

Knowing this, and to maintain an indoor environment under adequate levels of quality that will keep us healthy, we need to study the environmental characteristics that promote the growth and proliferation of the organisms mentioned above. Environmental characteristics include temperature, humidity, CO, Carbon dioxide (CO₂), dust characterization and air flow, among others. One of the most important factors is the inappropriate temperatures for an indoor space is the temperature; this should be kept at 70° to 76°F. High temperatures promote the growth of bacteria, fungi, and dust mites. Therefore, temperature controls are important since if appropriate conditions are provided for the proliferation of these pathogenic organisms, the probabilities of severely affecting the health of the people exposed to them will increase. Another important factor which is influenced by temperature is relative humidity. Relative humidity should be kept at 30-60%; higher levels could be critical for people sensitive to these organisms and could result in possible asthma episodes on chronic sufferers of this disease since the growth of these microorganisms could propagate (Lemmo et al., 2006).

The presence of skin and eyes irritation, mucus membrane secretions and other relates symptoms related with the working environment are characteristics of Sick Building Syndrome. One important characteristic of this syndrome is that it is always present in susceptible individuals while inside the building and absent or more moderate when they leave or are not present on the premises. The main complaints among the personnel that work in the premises include ear, nose, and throat problems; dermatitis, concentration problems, headaches, and fatigue, shortness of breath, and smell sensitivity. The term building related illnesses is used when the symptoms of the disease are identified, diagnosed, and directly attributed to the air contaminants of the building. The signs and symptoms include cough, chest pain, respiratory problems, edema, palpitations, cancer, alveolitis, pneumonia, occupational asthma among others (Sumedha, 2008). Many people know the health hazards of atmospheric pollutants, but others ignored how the contaminants inside a building can significantly affect their health. Some studies on the exposure to air pollutants indicate that indoor levels of contamination can be 2 to 5 times and sometimes up to 100 times higher than the outside air (EPA, 1997).

The majority of biological contaminants that are found inside a building come are outdoor allergens. These penetrate the indoor environment through windows, doors, and ventilation systems. The aeroallergens vary with the seasons, weather conditions, geographic location, and the indoor ambient. Researchers have established the following hypothesis: the higher the flow of air from the exterior to the interior of the building, the lower is the concentration of contaminants and the probability of getting sick due to air contamination (Menzies et al., 2003). Therefore, contrary to popular belief closing our doors and windows to limit the flow of air goes against our desire to protect our health.

Until our people start to understand the symptoms, causes, conditions and the risk of airborne contaminants, we will continue to suffer illness. The excess of humidity in structures contributes to the growth of fungi and provides a favorable environment for dust, roaches, rats, and other plagues. Structural problems, plumbing deficiencies and poor maintenance in buildings provide mechanisms for those plagues to enter the buildings. On the other hand, the fungus found in the interior comes from two sources, from the outside through doors and windows and from fungus colonization in the building. Once fungi obtain specific nutrients and sufficient humidity to grow, they will appear on walls, insulation material, carpets, mattresses, and other surfaces. The abovementioned biological agents sensitize the immunological system producing antibodies after the first exposure. After repeated exposure, the immune responses are faster and more intense and can result in allergic asthma, bronchial hyper-reactivity and respiratory tract inflammation (Jacobs & Baeders, 2005).

In the mid- 1990's, the Health Center of the University of Michigan or UMHS began to diagnose serious infections caused by *Staphylococcus aureus* and *Streptococcus sp.* among athletes, healthy children, military recruiters, and groups of professional football players. This situation caused a great concern to the Center of Disease Control or CDC. The CDC recommends that communities and athletic centers work to develop prevention strategies since this bacterium are opportunistic especially when it comes to open skin wounds (UMHS, 2004).

There are two ways in which humans can be infected with pathogens or acquire diseases: direct contact and indirect contact. With the direct contact, the pathogenic microorganism goes directly from the infectious source to the healthy host. The indirect contact is produced through an intermediary that can be a vector. It is important to remember that for an exposition to result in an adverse health reaction the presence of a microorganism is needed along with other variables like abiotic factors. Among external factors we have temperature, humidity, changes in pressure, and microorganisms; all of them influencing for the contagion of diseases (Koren & Bisesi, 2008).

Children and the elderly are more sensitive to pets and birds allergens when in enclosed in a classroom or facility. Inhalation, skin contact, and ingestion are the most frequent ways to exposition of particles. Bacteria, dust, mites, animal epithelium, pollen, fungi, and animal excrement particles penetrate the system affecting the health like in the case of allergies, dermatitis, sinuses, and asthma among others (EPA, 1995b).

Study problem

The Caguas Gymnastic Club is a facility that receives approximately 300 children between the ages of $2\frac{1}{2}$ and 18 years of age. These children use this facility six day as a week from Monday to Saturday. Some of the children, teenagers, and coaches have expressed that at one point in time they have suffered from eye irritation, dry cough, headaches, and sinuses. During the year 2008, one athlete had hospitalized because of *Streptococcus sp.*, though the origin of the bacterium was not identified. Other factors that worsen the situation are the presence of pigeons, dogs, cats, mice and baby snake, elevated temperatures, and humidity. In the past, the presence of pigeons had been identified as a problem.

We evaluated the environmental conditions like temperature, humidity, airflow in the facility that was unknown. These physical parameters also influence in the growth of pathogenic microorganisms. The pigeons' excrement represents a serious health hazard. The excretion of these birds contains acids such as phosphoric acid and uric acid. The pigeons in general build their nests in the buildings' eaves. Many diseases of these birds can be transmitted to the humans through the excrement that infect the organic material in the soil and the surface can be highly infections for years. The complexity of the infection will also depend on the time of exposure, the quantity of inoculums and the route of infection. Clamidiosis, Salmonellosis, Arizonosis, and Colibacillosis are the most traditional infections caused by pigeons' excrement and the most treated ones at hospitals and clinics. Many of the diseases transmitted by pigeons' excretion, like Histoplasmosis, can be serious and require a treatment for life.

Justification

Monitoring, identifying, and evaluating the quantity and types of microorganisms that inhabit the Caguas Gymnastic Club is an important matter, since there is the possibility that athletes and coaches are working in an environment where contaminants can affect their health. The importance of this evaluation relies on the fact that the population that uses such gymnasium is predominately children. Due to its physiological characteristics and behavior, children are one of the groups more susceptible to infections by the endogenous pathogens of the gymnasium. The diseases caused by *Streptococcus sp.* are considered sporadic, but can cause epidemics. They are common in places where there is overcrowding.

We have to remember that contamination of the indoor air has a direct impact on the health of the people that work inside the facilities. Due to the limited knowledge on this problem, research should be continuing focusing in minimizing the impact on public health. This preventable problem concerns all of us. Medical specialist identify that the most common problems found with children under eighteen are problems related with asthma, allergies and dermatitis.

Investigation question

Are some of the microorganisms, in air and surface, present in the facilities of the Caguas Gymnastic Club could affect the health of the children and coaches that use those facilities?

Goal

The goal of this research was to investigate the presence of pathogenic microorganisms in the Caguas Gymnastic Club that could be a risk to the health of the users of the Club and to propose corrective measures. The corrective measures included develop a cleaning and disinfection plan with the purpose to compare the result obtained before and after mitigation process.

Objectives

1. Identify and evaluate the presence of some microorganisms and the environmental conditions in the Caguas Gymnastic Club.

2. Determine whether the microorganisms founded were a potential risk to the health of the children that use the facilities.

- 3. Make a Risk Communication Plan.
- 4. Create a mitigation plan for the facilities.

CHAPTER II

LITERATURE REVIEW

Historical background of air quality

In 1984, the Organizational Committee for Global Health reported to the Environmental Protection Agency or EPA that 30% of the new and remodeled buildings has excessive complaints related to the indoor air quality (Global Health Alliances, 2002).

The contaminants of the outdoor air are a dynamic system in which the physical and chemical processes affect the accumulation of contaminants in the atmosphere. The emission origin is a reserve that is constantly changing. On the other hand, the indoor air contaminants are diluted in the air, but in a static environment where the physical and chemical characteristics transform, they can be found in higher concentration levels (Nazaroff, 2004).

In the past, the discussion of indoor air quality focused in the constituents of the air, like for example, primary particles, bioaerosoles and chemicals, and in factors such as temperature, air flow and humidity (Samet, Splender & Mitchel, 1998). Environmental problems have acquired a higher relevance in the last years, especially those that are directly related to the health. A relationship has now been established between the building ambient and the human being. A relation has been identified between the occupants of a building and the implications that the design, operation, light, noise, and use of the building might cause, therefore, creating an added exposition that can

contribute to the health and physical discomforts of the occupants (Cummins & Jackson, 2001).

The biological reservoirs of exterior air contaminants are also found in the interior of a building (National Research Council, 2004). The air contaminants that are mostly found inside a building are gas and material particles; animals contribute to the production of these contaminants producing fecal excrement and detritus of the skin. People release epithelial cells and along with the dust accumulated in beds, rugs, and furniture contribute to the production of allergens. The poor condition of an air condition system can harbor psichrophilic bacteria like *Legionella pneumophilla*, which is responsible for the Legionnaires' disease. In this way, the microorganisms or substances that caused diseases are not only circumscribe to a specific location, but also can be transported throughout the building by ways of the air condition system. This situation has a global effect in the general population that lives, works, or uses the building facilities (World Health Organization, 2002).

Particulate Matter (PM) is one of the six current USEPA criteria air pollutants. PM are particles that consist of many different substance suspended in the air in the form of particles of solid or liquid matter, which vary in size, source, chemical composition, and remain suspended in the air for long periods (Abelsohn et al., 2002; Maynard et al., 2003). Primary coarse particles are those produced by mechanical processes and include windblown dust, road, sea salt, dust and combustion-generated particle such as fly ash and soot. Secondary PM is form by chemical reactions of dissolved gases.

PM can be classified in small or fine particle that are less or equal to $2.5\mu m$ in diameter; and PM 10 refer to all particles less than or equal to $10\mu m$ in diameter. These

entire particles are directly emitted to the environment and can produce adverse health effect. The smaller particles are considered the most damage to health (Liu et al., 2003), since they can move easily penetrate the respiratory tract and aggravates illness such asthma and bronquitis (Godish, 2003).

Effects of the pathogens found in indoor air

During the last decades, there has been a concern about the presence of fungi and other allergens in the indoor air, and their relation with the adverse effects to the health. Today, research on indoor air quality is more focused in the analysis of fungi and the measurement of air particles (Brasel et al, 2005). The exposition to these factors can influence the responses to allergic hypersensitivity and problems with asthma (American Academy of Allergy, Asthma and Immunology, 1998). The magnitude and dimension of the illnesses caused by indoor air allergens will depend on different factors: the prevalence of the disease measures the frequency in the population within a specific time, and the incidence of the disease measures the number of new cases that take place within a time frame. The incidence and prevalence will vary according to sex, age, ethnic group, socio-economic class, and geographic region (Pope & Patterson, 1993).

Fungi and other biological agents are associated with a great number of conditions including hypersensitivity to pneumonia. Fungi and spores found in indoor air with high levels of humidity produce micro toxins, which increase the possibility of introducing systemic diseases (Fisher & Dott, 2003). The clinical effects of the micro toxins include respiratory, neurological, immunological, dermatological, and gastrointestinal problems (Kuhn & Ghannoum, 2003). The most common fungi that can be found include species of the genus Alternaria sp., Cladosporium sp., Aspergillus sp., Penicillium sp., Stachybiotrys sp., Chaetomium, yeast like Candida albicans, and members of the Basidiomycetes, Zigomicetos, and Ascomicetos (Dillon et al., 1999).

Bacterium like *Micrococcus*, *Bacillus sp.*, and *Staphylococcus sp.* can be found in high concentrations in places with inadequate ventilation. The actinomycetes can cause hypersensitivity to pneumonia and can be found in porous surfaces and humid places (Morey et al., 1984).

Studies on pathogens in indoor air

There is a lack of exactness in the definition of health in respect to SBS, which presents confusion in the investigation of adverse health effects associated with indoor air contaminants. Surveys indicate that there is a difference in perception among men and women on what is a healthy person. The physical build is not important when is time to identify which persons are healthier. Mortality statistics failed to show the percentage of the population that suffer chronic illnesses and were never under medical treatment and if these people were healthy or not. Health is determined by factors such as genetics, physique, lifestyle, and environment (Weetman & Mumby, 1994). Daily prevention of diseases maintains the human being emotionally and physically healthy and productive.

Effects of pulmonary function

During the year 2000, the University of Washington did some studies on patients that showed a decrease in the pulmonary function. These patients resided near areas where problems with material particles and pathogenic biological agents in the environment have been previously identified. Prior to the study, patients were examined for specific contaminants such as *Pseudomonas aeruginosa*. The participants of this study were relocated close to the Environmental Protection Agency (EPA) during the stage of investigation. The results show that the patients who reside in large cities are exposed to emissions since most of them are concentrated inside their homes, causing like this an increase in respiratory problems (Newson, Schidcrout & Kaufman, 2004).

Impetigo among athletes with direct contact

Impetigo is a very common and highly infectious condition among athletes. It is communicated through a direct link or through a transport, and it can infect undamaged skin. The responsible organisms could be *Streptococcus sp.* and *Staphylococcus aureus*. High temperatures, humidity, and poor hygiene are some of the favorable factors for the proliferation and transmission of the impetigo (Sherry & Wilson, 2002).

Outbreak of *Tinea corporis* due a *Trichophyton tonsurans* in a Judo Team

A hospital of France reports an outbreak of tinea corporis due to *Trichophyton tonsurans* infection in a Judo Team in 2005. Personal hygiene practices were founded to be very good among the athletes. The high attack rate was linked to the poor shower facilities in the gymnasium where they practiced that led them to have their showers several hours after the end of daily practice (Poisson, Rousseau, Defo & Esteve, 2005).

Furunculosis in a football team in an Illinois high school

The deteriorated physical state of sport facilities along with open wounds in a group of football players, favored the outbreak of swollen abscesses in the armpits and extremities of these athletes. The responsible organism was *Staphylococcus aureus*. The lack of hot water, soap, and poor hygiene in the shower area were factors that facilitated the outbreak of infection (Barlett, Martin & Cahill, 1982).

Swimming pools and fungi in indoor facilities

In the University of Urbino, Italy an environmental epidemiology survey was performed in indoor swimming facilities. They founded a filamentous fungi and yeast was isolated from contaminated air, water and surfaces. The result revealed a high biodiversity of fungi likes: *Aspergillus spp., Penicillium spp., Cladosporium spp., Alternaria spp.,* and *Fusarium.* The investigation considers that the biodiversity of the microorganisms in the facilities may represent a biological risk for employees and users (Brandi et al., 2007).

Meningococcal diseases

Meningococosis is a condition caused by *Neisseria meningitis*, a condition thoroughly studied in athletic facilities and universities of the United States of America. The importance and priority of these studies lay in the long and short term harmful results that this condition can have in people of all age groups. The University of Dubuque, Iowa, made a study and estimated that around 100 and 125 cases appear annually in his campuses of colleges and universities. This incidence has increased since the 1990's. The disease is transmitted through the respiratory airways and the direct contact with the affected persons (University of Dubuque, 2008).

Outbreak of Giardiasis and Cryptosporidiosis associated with neighborhood interactive water fountain

A group of Environmental and Epidemiological investigator identified an outbreak of Giardiasis and Cryptosporidiosis in Central Florida during September 2006. The source identify was a water fountain. The population affected was children between ages of four years old. This outbreak was the first documented associated with exposure to an interactive water fountain in the United States. This outbreak and others need to design and implement more stringent disinfection practices. Giardia cyst and Cryptosporidium oocyst are small and chlorine-resistant, and they may require supplemental disinfection methods, such as ultraviolet light irradiation, ozonation, or chlorine dioxide (Leah, 2008).

People who practice contact sports are in risk of suffering infection outbreaks and skin lacerations. The most common causes of outbreaks and infections include the *Staphylococcus aureus*, herpes virus, *Streptococcus pyogenes* and various fungi. The *Staphylococcus aureus* resistant to Methicillin has been identified as an emergency problem within the community, but particularly among the athletic and military population and in care centers. Many doctors in sports medicine are not well acquainted with the epidemiology of this pathogen. It is important that health specialists adequately manage and identify the infection in order to treat it and control a possible outbreak. On the other hand, it is important to establish prevention measures among athletes, coaches, parents, schools, and administration (Rihn, Michaels & Harner, 2005).

Skin infections including MRSA have been reported mostly in high-physicalcontact sport such as football, rugby players, soccer, basketball, volleyball, field hockey, martial arts, fencing and baseball. Little physical contact occurs in some sport during participation, skin contact or activities that may lead to spread of MRSA. Skin infection may take place before or after participation such as in locker room or showers. Therefore, anyone participating in organized, competitive or recreational sports should be aware of the signs of possible skin infections and follow prevention measure.

Legal framework

Clean Air Act (CAA)

The Clean Air Act of 1970 requires that the Environmental Protection Agency or EPA develops and regulates the exposition of air contaminants that are dangerous to the health. Furthermore, it regulates air emissions, stationary sources, and mobile sources. This law authorizes the EPA to establish the National Ambient Air Quality Standards or NAAQS.

During the creation of this law, the federal government authorized the EPA to reinforce the quality of air in forty-nine states with the exception of California. The EPA allows each state to take responsibility over the observance of the regulations and to create their own limits. In order to comply with the Clean Air Act, the state can write and submit a State Implementation Plan or SIP for EPA's approval. The SIP should comply with the minimum criteria established by the EPA. If this plan is not acceptable, then the EPA needs to reinforce the Clean Air Act in that state. National Ambient Air Quality Standards (NAAQS)

The National Ambient Air Quality Standards are established by the EPA and apply to the outdoor air through the cities. The standards are designed to protect the health with an adequate margin of safety including sensitive populations like children, adults, and individuals with respiratory illnesses. Furthermore, they are designed to protect the public from any adverse health effect that can present a contaminant of unknown origin.

The NAAQS requires that the EPA indicates the standards on six criteria of air contaminants: ozone, material particles, carbon monoxide, sulfur dioxide, nitrogen oxide, and lead. When an area does not meet the air quality standard for one of these criteria pollutants it may be subject to a process that designates it as nonattainment area. This classification is used to specify what air pollution reduction measures an area must adopt, and a deadline for when the goal must be reached.

Annual and 24-hrs NAAQS for particulate matter were first set in 1971. Total Suspended Particle (TSP) was the first indicator used to represent suspended particles in the ambient air. The Title 40, Part 50, Section50.6 sets the National Primary and Secondary ambient air quality standards for PM10: 150 μ m/m³ for 24 hrs, not to be exceeded, more than once per year and 50 μ m/m³ annual arithmetic mean averaged over three years not to be exceeded. Section 50.7 sets the National primary and secondary ambient air quality standards for PM 2.5 these include 65 μ m/m³ for 24 hrs based on the 98th percentile concentration averaged over three years, not to be exceeded and 15 μ m/m³ annual arithmetic mean averaged over three years.

The National Environmental Policy Act (NEPA)

The purpose of the Law is that if requires that federal agencies conduct thorough assessments of the environments impacts of all mayor activities undertaken or funded by the federal government. Many states have enacted similar laws governing state activities.

Law of the Department of Health of Puerto Rico (DSPR)

The Department of Health creates rules and regulations to prevent infectious or contagious diseases or epidemics. These rules also protect the public health in any service, business, activity, or situation that could be affected such as water supply, building construction, building ventilation, drainage, schools, workshops, hospitals, barber shops, beauty salons, and public baths among others.

The Secretary of Health or his or her representatives are authorized to enter any building to examine the sanitary conditions. They have the authority to order the closure of any facility when it is proven that the sanitary conditions, or the way it operates constitute a public health problem.

Organic Law of the Department of Recreation and Sports

This law promotes the mental, physical, and emotional health of the individual. It states that the proper use of resources can foster the development of recreational activities and sports that are essential for a better quality of life. It also promotes the development of programs on physical efficiency and education about recreational alternatives.

The secretary of the Department of Recreation and Sports has the power to regulate and supervise any sports or recreation program or facility of Puerto Rico. He or

she will make studies on the effect of recreation and sports in the physical, emotional, and mental health of the citizens. The secretary through by-laws will establish guides for the planning, designing, location, construction, maintenance, and use of sports and recreation facilities in the island. Bilateral cooperation will be fostered between the department and the different municipalities, in relation to the construction, improvements, maintenance, and administration of sports facilities; always taking into consideration the socio-economic characteristics of each municipality.

CHAPTER III

METHODOLOGY

In this study, our objective was to evaluate the presence of pathogenic microorganisms in the air and the surface and the indoor air quality at the Gymnastic Club in Caguas Puerto Rico. We conducted this investigation following a preliminary visual assessment and the identification of some pathogenic microorganisms that may be a potential risk to the health of the children and coaches that use those facilities.

Objectives

1. Identify and evaluate the presence of some pathogenic microorganisms and the environmental conditions in the Caguas Gymnastic Club.

2. Determine whether the microorganisms found are a potential risk to the health of the children that use the facilities.

- 3. Make a Risk Communication Plan.
- 4. Create a mitigation plan for the facilities.

Field of study

The Caguas Gymnastic Club is located inside the sports complex of the Autonomous Municipality of Caguas. Located in front of the Club is the Roger Mendoza Coliseum, to the right is the Caguas Department of Recreation and Sports, to the left cardinals is a manufacturing plant of biomedical equipment called Saint Jude Medical, and in the back cardinals, there is the parking lot of the Héctor Solá Bezares Coliseum (Figure. 1).

The Caguas Gymnastic Club measures approximately 17,500 square feet, and 25 feet in height. The lower level is made of concrete and the upper level including the roof, which is made of zinc. The facilities include bathrooms, administration offices, and a warehouse for cleaning equipment, a kitchen, and a training area. The training area includes shower for the athletes and the different practice implements like the foam pit, beams, bars, a floor covered with a rug used for the floor exercises, floor mats, rings, pommel horse, and containers to store the lime, wooden cubicle, and other equipment. (Figure. 2) The Club is visit by six days a week, approximately 300 children between the ages 2½ and 18 years of age.

The method used to assess the indoor air quality is characterized by the collection of information. The assessment included an inspection of the relevant areas for visual microorganism growth, air and surface sampling. The visual inspection was important to us because allowed the identification of possible factors that affect the quality of indoor air. Beside the visual inspections environmental factors likes temperature, humidity, Carbon monoxide (CO), Carbon dioxide (CO₂) Particulate matter were analyzed with direct reading instrumentation and Spore Trap Air Filter was collected utilizing a Air-O-Cell cassette.

For the identification of the sampling spot, we created a quadrangle following the asbestos quadrangle. We divided the quadrangle in 134 equal squares; each one has length of 10ft². Using the statistical program RANDOM.ORG, we selected 30 sample points for the local identification of the air sampling using the SAS 100 (Figure 3). This

program will be used to selecting random samples from large data sets with a uniform distribution. We used the same grid for the identification of the physical and chemical parameters but divided in six equal parts (Figure 4). The physical parameter evaluated in those points was temperature, humidity, CO, CO_2 , Particle matter and Spore Trap Air Filter. We also collected two samples as background for the microbiological and physical parameter to compare with the sample inside the training area.

Length of time of the research

We conducted this research in three phases. The first phase was performs on June 9, 2009. We sampled during the first phase sterile carpet test, exposure plates and measure of direct reading instrumentation. On June 15, 2009 the sampling of air and surfaces was performed to identify microbial presence. We measured physical and chemical parameters like Temperatures, Relative humidity, CO, and CO₂ utilizing an IAQ Calc. manufactured by TSI. We measured particulate matter with direct reading instrument and Spore Trap Air Filter.

We conducted the second phase on September 26 to September 30, 2009. The purpose of this phase is to perform the mitigation process for fungi and bacteria in Caguas Gymnastic Club. During this phase, we perform a cleaning and disinfestations process using Microban QGC Disinfectant Cleaner manufactured by Sylvane. Microban is a product approved by EPA for the use as disinfectant, fungicide, virucide, sanitizer, mildewstat, deodorizer and heavy duty cleaner. Microban has been used in microbial remediation, pest control and odor removal. On October 6, 2009 the second sampling of sterile carpet test, air and surfaces was performed to compare the efectivity of the cleaning procedure. Temperature, Relative humidity, CO, CO₂, Particulate matter and Spore Trap Air Filter was taken.

We conducted the third phase on October 10, 2009. The purpose of this phase was the application of the Anti-microbial product (Trimethoxysilyl Quaternary Ammonium Chloride) H.E.L.P Technologies that can prevent the presence of a broad spectrum of microorganisms during 90 days.

Physical parameter procedure

Temperature and Relative humidity (%RH)

We analyzed these parameters utilizing a direct reading instrument model TSI-8760, IAQ-CalcTM. The field calibration was performs before the sample collection as recommended by manufacturer. The samples were collected in each of six different points identifies in the quadrangle. Two different samples as background were also collected, one in the office and other in the exterior of the building.

Carbon monoxide (CO) & Carbon dioxide (CO₂)

We analyzed these parameters utilizing a direct reading instrument model TSI-8760, IAQ-CalcTM. The field calibration was performs before the sample collection as recommended by manufacturer. We collected the samples in each of six different points identified in the quadrangle. Two different samples as background were also collected, one in the office and other in the exterior of the building. Particulate matter (PM)

These parameters were analyzed utilizing a direct reading instrument IAQ model 316 manufactured by LIGHTHOUSE World Wide Solution. We collected six samples of non-viable particles in the training area using the above-mentioned quadrangle. Two different samples as background were also collected, one in the office and other outside of the building. The instrument read the concentration of the most common particulate matter of air in ft³; 0.3 microns, 0.5 micron, 1.0 micron, 2.5 micron, 5.0 micron, 10.0 micron and Total Suspended Particle (TSP).

Spore trap air filter

This sampling consisted in trapping the dust in a Bioaerosol Sampling Cassette, a unique sampling device specially designed for the rapid collection and analysis of a wide range of airborne aerosols. These include mold, spores, pollen, insect parts, skin cell fragment, fibers and inorganic particulate. We collected six sample of viable and nonviable particle in the training area using the quadrangle and two different samples as background, one in the office and other in the exterior of the building.

Sampling materials

- Air-O-Cell Cassette
- Rotameter
- Flexible Tubing
- High Volume Air Pump

Sampling procedures

Removed and retained the tape seal covering the Air-O-Cell inlet and outlet. We connected the pump tubing into the outlet. The sampling pump flow rate was set of 15 liter during five minutes. We removed the Air-O-Cell Cassette from the tubing and resealed with the original tape. We placed all the samples in a plastic bag and send to RAMS Environmental Laboratory, Inc in Miami, Florida for the Dust Characterization by Optical Microscopy techniques.

Sampling analysis

We removed the glass slide from the Cassette. We placed the glass slide into a microscope slide with one drop of Lacto Phenol Cotton Blue. We covered the microscope slide with the cover slip. We conducted the counting and quantification by counting cross-sections of the deposited trace. The particle deposit area is approximately 1.1mm wide by 14.5mm an approximate area of 15.95mm².

Biological parameter procedure

Exposure plate

The purpose of this sampling method was to estimate the contamination level in the study area. We conducted this sampling technique following the SOP 300-021 of Clendo Industrial laboratories Inc. and APHA. 4th Edition (2001). We selected Tripticase Soy Agar (TSA) media to identify bacteria, and Rose Bengal Agar (RBA) was choosing for the collection of fungi. The RBA is a selective medium since the antibiotic inhibits the growth of bacteria, consequently, avoiding the contamination of the samples. We placed a totally of 30 TSA plate and 30 RBA plate in different point selecting the random samples given by the program RANDOM.ORG and the quadrangle. Two different samples as background were also collected, one in the office and other in the conference room. We collected one plate of TSA and RBA as negative control for sterility test purpose.

Sampling materials

- TSA plates
- RBA plates
- Personal Protective Equipment
- Biological Waste Disposal Autoclave Bags
- Incubator 30°-35°C
- Incubator 20°-25°C

Sampling procedure

We placed the exposure plates immediately after the athletes had left the training area. We placed all samples at 9:00 pm and removed the next day at 8:00 am in the morning. We packed and transported all samples in a cooler to the laboratory for analysis. We incubated all TSA plates in inverted position at 30°-35°C for 48 hours. We incubated also the RBA plates in inverted position at 20°-25°C for 48 hours.

Sampling analysis

We removed all the samples from the incubator at the 48 hours due an overgrowth in all TSA and RBA plates. We evaluated all the samples only for macroscopic identification and counted. All the samples were disposed as biohazard material. Sterile carpet test

Dermathophytes are one of the most pathogenic fungi that have been identifying in human skin, hair or nails infections. Usually is transmitted by contact, particularly in common showers and gym facilities. This testing is a modification of the technique follow by Calcanti, 2002 and Bentubo 2006. We collected 30 samples in equipment were athletes are in direct contact. We also collected one sample for sterility check purpose.

Sampling materials

- 2 x 2 Sterile carpet
- Mycosel Agar Petri dishes

Sampling procedure

We removed the sterilized carpet from the bag and rubbed in the area of interest. We pushed the piece of carpet into the Mycosel Agar plate and then removed from the agar plate. After packing, we transported all the samples in a cooler to the laboratory for analysis. We incubated all the Mycosel agar plates in inverted position at 25°C during four week.

Sampling analysis

We removed all the samples from the incubator when presenting sufficient growth for identification. We evaluated all samples by their macroscopic and microscopic morphological characteristics. For the microscopic identification, we used a slide and cover slip mounting with Lactophenol Aniline Blue. The analysis techniques was conducted following the Clendo Industrial Lab specification and different taxonomic guide

Surface monitoring using swabs

We taked the surface samples with Tecra Enviroswabs in areas where athletes have greater contact. This type of sample is not destructive method in evaluating the presence of microorganisms on surface. We collected 35 samples, 33 inside the training area and two as background, one in the office and other in the Conference Room. We collected one swab as negative control for sterility test purpose. We conducted this sampling technique following the SOP 300-021 of Clendo Industrial laboratories Inc. and APHA 4th Edition (2001). The sampling technique, sampling analysis, incubation period were also followed the procedure that have been previously validated and approved by the laboratory. For the specific steps in the process of isolating and identifying bacteria, we used the Vitec 2 Compact and followed the SOP 300-008. We evaluated all the samples for fungi identification by their macroscopic and microscopic morphological characteristics.

Sampling materials

- Trypticase Soy Agar (TSA) plates
- Trypticase Soy Broth (TSB) 10 ml
- Eosin Methylene Blue (EMB) agar plates
- Sterile Tecra Enviroswabs
- Personal Protection Equipment
- 20°-25°C incubator
- 30°-35°C incubator
- Rose Bengal Agar (RBA)
- Lactophenol Aniline Blue

Sampling procedure

We labeled each swab with the date, the spot of the sample and the control number of the laboratory. We removed each swab from the tube and pushed the tip of the swab to the side of the tube to remove excess diluents. We rubbed the sterile swab over the surface of a diameter that measures 2×2 centimeters. We placed the swab again in its packing and sealed. We transported all Enviroswabs to the laboratory for analysis.

Sampling analysis

We worked aseptically all Enviroswabs samples in the Biological Safety Cabinet to avoid contamination. In each Enviroswabs, we added 20 ml of Trypticase Soy Broth (TSB). We closed each tube and swirled in the vortex during one minutes. For each Enviroswabs sample, we used TSA plates in duplicate. In each plate, we added 1.0 ml in duplicate and 0.1 ml in duplicate of the sample. After added the samples in each Petri dish we added TSA using pour plate technique. We incubated all plates at 30°-35°C for 48 hour. We counted all colonies and calculated the number of colonies recovered from 50 cm² (equivalent to 1 ml of poured media). We re-incubated the plates at 20°-25°C for another 120 hours. All TSA plates were counted and then calculate the number of colonies recovered from 50 cm² (Colonies/50cm²) and reported in CFU. Use appropriate selective and differential media like EMB, Nutrient Agar, TSA and Sabouraud Dextrose Agar and incubated as required.

Air sampling

The objective of this study is to capture and quantify the different cultivable fungal and bacteria present in the air to determinate if the level present indicate a problem in the indoor environment. The samples was taken with the instrument SAS SUPER 100, a portable instrument that use the impaction of a medium of solid culture using Petri dishes of 100mm. We selected TSA media to identify bacteria and RBA was choosing for the collection of fungi. We conducted this sampling technique following the SOP 100-023 of Clendo Industrial laboratories Inc and the EMLab P & K IAQ Pocket Reference Guide 2008. We sampled a totally of 30 TSA plate and 30 RBA plate using SAS 100 in different point selecting the random samples given by the program RANDOM.ORG and the quadrangle. We also collected two different samples as background, one in the Office and other in the exterior of the building. We collected one plate of TSA and RBA as negative control for sterility test purpose.

Sampling materials

- SAS SUPER 100 Air Sampler
- 70% ethanol
- TSA plates
- RBA plates
- 20°-25°C incubator
- 30°-35°C incubator
- Personal Protective equipment

Sampling procedure

We removed the coverlid from the Air Sampler. We inserted the contact plate into the Air Sampler. As manufacture recommendation, the air aspiration cycle was three minutes for each TSA and RBA plates. We removed the contact plate from the instrument and replaced with the lid of the SAS. After finished each sample we identified each contact plate with the sample ID point and the control number of the Clendo laboratory. After finished all the samples, packed it and sent to the laboratory in a cooler for analysis. We incubated all the samples for the specific time at the appropriate temperature: TSA at 30° to 35°C for 48 hours and RBA at 20° to 25°C for 5 days.

Sampling analysis

We counted all cultivable microorganisms at the end of the incubation period and related this number to the volume of air sampled. We made subculture of representative isolates for identification using an appropriate selective and differential media like EMB, Nutrient Agar, and Sabouraud Dextrose Agar. We incubated all the subcultures as required. We identified all the bacteria with gram stain. For the specific steps in the process of isolating and identifying bacteria, we used the Vitec 2 Compact and followed the SOP 300-008. We evaluated for fungi identification, all the samples by their macroscopic and microscopic morphological characteristics.

Result calculation

We applied a correction factor to each sample prior to calculation of concentration of fungi and bacteria in each sample, expressed in CFU per cubic meter of air. We used the Most Probable Number (MPN) given by the manufacturer for the correction factor

32

because more bacteria could be aspirate from the same hole and land on top of another bacterium on the surface media.

Example of calculation results:
$$X = \frac{Pr \times 100}{V}$$

Where:

	V	=	Volume of sampled air = 200 liters of air
	R	=	Colony Forming Units counted on "55mm Contact Plates" = 67
	Pr	=	Probable count obtained by positive hole correction $= 80$
Х	=	Colon	y Forming Units per 1000 liters $= 1m^3$ of air
Х	=	<u>80 x 1</u> 200	<u>100</u>
Х	=	<u>80 x 1</u> 200	<u>100</u>

To express the result in CFU/ft^3 , multiply the CFU/m^3 value by 0.02832.

(Note conversion formula = 1 cubic foot = 20.32 liters

CHAPTER IV

RESULTS AND DISCUSSION

During our research a series of testing, we need to conduce with the purpose to meet our objective. Our goal is evaluate the presence of pathogenic microorganisms in the air and the surface and Indoor Air Quality at the Caguas Gymnastic Club. The assessment included an inspection of different areas that athletes and coaches have direct contact, physical-chemical testing and biological testing we need to perform to present strategy to avoid repeated contamination in the facility. We conducted this research in three phases, in order to present our results; a detail description of the finding is presented below.

The visual assessment was perform in the interior of the facility on June 9, 2009 including training area, office, meeting room, bathrooms, storage room, kitchen and bleachers. We observed evidence of water intrusion evidence from the ceiling to the front carpet area. We observed a lot of dust in the entire training area specialty in the foam pit area and in the back carpet. We observed mold growth in the pommel horse, wooden cubicle, beams, carpet, and mats and in the foam pit area. We observed the presence of pigeons dropping, cats and dog excrement, cockroaches, mice and the dead of a baby snake in front of the door close to the training area. We also observed plant debris inside the training area specialty in the back of the gym around the back carpet and in the foam pit area. We observed pigeon evidence in the training area.

Temperature and Relative humidity (% RH)

During the first phase performed on June 9, 2009, the average temperature in the training area was 91.1°F and the relative humidity was 52.7%. The temperature in the office collected as background inside the building was 89.1°F and the relative humidity was 56.7%. The temperature in the exterior of the building collected as background was 89.6°F and the relative humidity was 55.8% (Table 1).

During the second monitoring in the first phase performed on June 15, 2009, the average temperature in the training area was 93.0°F and the relative humidity was 52.3%. The temperature in the office collected as background inside the building was 90.0°F and the relative humidity was 59.3%. The temperature in the exterior of the building collected as background was 82.2°F and the relative humidity was 55.3% (Table 1).

During the second phase performed on October 6, 2009, the average temperature in the training area was 82.5°F and the relative humidity was 72.6%. The temperature in the office collected as background inside the building was 81.5°F and the relative humidity was 74.0%. The temperature in the exterior of the building collected as background was 80.8°F and the relative humidity was 74.6% (Table 1).

Carbon monoxide (CO) and Carbon dioxide (CO₂)

During the first phase performed on June 9, 2009, the average Carbon monoxide measured in the training area was 1.6ppm and the CO_2 measured was 407ppm. The CO measured in the office collected as background inside the building was 1.7ppm and the CO_2 measured was 382ppm. The CO measured in the exterior of the building collected as background was 1.4ppm and the CO_2 measured was 384ppm (Table 1).

During the second monitoring in the first phase performed on June 15, 2009, the average CO measured in the training area was 2.5ppm and the CO_2 measured was 542ppm. The CO measured in the office collected as background inside the building was 2.3ppm and the Carbon Dioxide measured was 618ppm. The Carbon Monoxide measured in the exterior of the building collected as background was 2.4ppm and the Carbon Dioxide measured was 562ppm (Table 1).

During the second phase performed on October 6, 2009, the average Carbon Monoxide measured in the training area was 1.4ppm and the Carbon dioxide measured was 389ppm. The Carbon monoxide measured in the office collected as background inside the building was 1.5ppm and the Carbon dioxide measured was 388ppm. The Carbon monoxide measured in the exterior of the building collected as background was 1.5ppm and the Carbon dioxide measured was 496ppm (Table 1).

Particulate matter (PM)

During the first phase performed on June 9, 2009, the average of PM measured in the training area was PM0.5 = 2.22 ug/m^3 , PM1.0 = 7.93 ug/m^3 , PM2.5 = 37.30 ug/m^3 , PM5.0 = 192.40 ug/m^3 , PM10 = 252.60 ug/m^3 and TPM = 298.50 ug/m^3 . The average of PM measured in the office collected as background inside the building was PM0.5 = 1.72 ug/m^3 , PM1.0 = 6.91 ug/m^3 , PM2.5 = 33.03 ug/m^3 , PM5.0 = 161.18 ug/m^3 , PM10 = 188.87 ug/m^3 and TPM = 201.35 ug/m^3 . The PM measured in the exterior of the building collected as background was PM0.5 = 1.72 ug/m^3 , PM1.0 = 6.88 ug/m^3 , PM2.5 = 32.90 ug/m^3 , PM5.0 = 153.56 ug/m^3 , PM10 = 180.28 ug/m^3 and TPM = 189.53 ug/m^3 (Table 2).

During the second monitoring in the first phase performed on June 15, 2009, the average of PM measured in the training area was PM0.5 = 1.35 ug/m^3 , PM1.0 = 2.98 ug/m^3 , PM2.5 = 12.32 ug/m^3 , PM5.0 = 62.91 ug/m^3 , PM10 = 87.84 ug/m^3 and TPM = 115.36 ug/m^3 . The average of PM measured in the office collected as background inside the building was PM0.5 = 1.24 ug/m^3 , PM1.0 = 2.92 ug/m^3 , PM2.5 = 12.34 ug/m^3 , PM5.0 = 63.75 ug/m^3 , PM10 = 87.93 ug/m^3 and TPM = 117.05 ug/m^3 . The PM measured in the exterior of the building collected as background was PM0.5 = 1.17 ug/m^3 , PM1.0 = 2.65 ug/m^3 , PM2.5 = 10.51 ug/m^3 , PM5.0 = 51.42 ug/m^3 , PM10 = 60.39 ug/m^3 and TPM = 71.48 ug/m^3 (Table 2).

During the second phase performed on October 06, 2009, the average of PM measured in the training area was PM0.5 = 2.07 ug/m^3 , PM1.0 = 8.51 ug/m^3 , PM2.5 = 39.51 ug/m^3 , PM5.0 = 196.82 ug/m^3 , PM10 = 241.64 ug/m^3 and TPM = 260.21 ug/m^3 . The average of PM measured in the office collected as background inside the building was PM0.5 = 1.95 ug/m^3 , PM1.0 = 8.02 ug/m^3 , PM2.5 = 35.82 ug/m^3 , PM5.0 = 167.06 ug/m^3 , PM10 = 191.83 ug/m^3 and TPM = 205.70 ug/m^3 . The PM measured in the exterior of the building collected as background was PM0.5 = 3.64 ug/m^3 , PM1.0 = 9.44 ug/m^3 , PM2.5 = 24.82 ug/m^3 , PM5.0 = 64.48 ug/m^3 , PM10 = 68.38 ug/m^3 and TPM = 76.70 ug/m^3 (Table 2).

Spore trap air filter

We collected air samples using the Air-O-Cell Cassette for particle dust characterization. During the first phase performed on June 09, 2009, were collected six samples inside the training area (REL09219PCA-01 to REL09219PCA-06). Sample

REL09219PCA-07 collected in the offices as background inside the building. Sample REL09219PCA-08 collected in the exterior of the building as background. The air samples in the training area indicated the presence of carbonaceous materials, dust and skin cells. The results in samples REL09219PCA-01 to REL09219PCA-06 indicated the presence of several fungal spores being the predominant the *Penicillium/Aspergillus* and *Cladosporium* spores. Sample REL09219PCA-07 indicated a presence of dust and skin cells. Sample REL09219PCA-08 indicated a presence of dust (Appendix 1).

During the second phase performed on October 06, 2009, were collected six samples inside the training area (REL09400PCA-01 to REL09400PCA-06). Sample REL09400PCA-07 collected in the offices as background inside the building. Sample REL09400PCA-08 collected in the exterior of the building as background. The results in samples REL09400PCA-01 to REL09400PCA-06 indicated the presence of dust. Air samples REL09400PCA-04 and REL09400PCA-06 indicated the presence of several fungal spores being the predominant the *Penicillium/Aspergillus* and *Cladosporium* spores. Air sample REL09400PCA-07 indicated a presence of dust. Sample REL09400PCA-08 indicated a presence of dust (Appendix 2).

Exposure plate

During the first phase performed on June 09, 2009 samples of TSA and RBA were carefully collected after has been exposure during 10 hours. The results indicated the presence of fungi and several bacteria. Due an overloaded growing in all the TSA and RBA plates all samples were observe for macroscopic identification. The result indicated Too Numerous to Count for all TSA and RBA plates (TNTC) (Table 3).

Sterile carpet test

During the first phase performed on June 09, 2009, we carefully collected samples with a sterile carpet. The result indicated the presence of various species of Dermathophytes likes *Microsporum ferrugineum*, *Microsporum cookei*, *Microsporum audouinii*, *Trichophyton verrucosum* and *Epidermophyton floccosum*. Other species of fungus identified was *Blastomyces dermatidis*, *Fonsecaea pedrosoi*, *Aspergillus avenaceus*, *Aspergillus hollandicus*, *Scopulariopsis asperula*, *Penicillium citrinum*, *Paecilomyces viridis*, *Phialophora reptans*, *Phialophora richardsiae*, *Phialophora verrucosa*, *Cladosporium cladosporoide*, *Scytalidium infestans*, *Polypaecilum insolitum*, *Candida albicans* and *Histoplasma capsulatum* (Table 4 and Appendix 3).

During the second phase performed on October 06, 2009, were collected the sterile carpet test followed by the cleaning and disinfestations of the CGC. The result indicated no growth of fungi in all Mycosel Agar plates after 21 days of incubation period.

Surface monitoring using swab

During the first phase performed on June 15, 2009, were carefully collected samples with Tecra Enviroswabs. The result indicated the presence of various species bacterias. The most common pathogenic bacteria found with the Enviroswabs were *Micrococcus lylae*, *Sphingomonas paucimobilis*, *Brevibacillus choshinensis*, *Staphylococcus epidermidis* and *Kocurria kristinae* (Table 5 and Appendix 4).

During the second phase performed on October 6, 2009, were collected Enviroswabs samples followed by the cleaning and disinfestations of the CGC. The result demonstrated that the process of cleaning and disinfection was effective with a cleaning efectivity of 97.44%.

Air sampling

During the first phase performed on June 15, 2009, were collected air samples using SAS instrument. The result indicated the presence of various species of microorganisms. The most common pathogenic fungi founded in Air sampling was *Aspergillus niger, Aspergillus avenaceus, Aspergillus clavatus, Acremonium curvulum, Curvularia clavata* and *Penicillium chrysogenum* (Table 6). The most common bacteria were *Staphylococcus haemolyticus, Staphylococcus saprophyticus, Pantoea spp., Klebsiella pneumoniae, Bacillus megaterium* and *Staphylococcus epidermidis* (Table 7 and Appendix 5).

During the second phase performed on October 06, 2009, were collected air samples followed by the cleaning and disinfestations of the CGC. The result demonstrated that the process of cleaning and disinfestations was effective with a cleaning effectivity of 80% (Figure 3 and Figure 4).

Discussion

At this moment, there are no state of federal regulation for fungi, bacteria and indoor air quality standards. The industrial hygiene profession and ASHRAE have recommended airborne concentrations of one-tenth the ACGIH Threshold Limit Value (TLV). This limit of concentrations will not produce compliance in non-industrial populations such schools, offices and others public buildings. Temperature and Relative humidity (%RH)

Air temperature and relative humidity are measure to assess thermal comfort and the possibility of mold growth. According to ASHRAE Standard 55, indoor air humidity levels should be maintain between 30 and 65 percent for optimum comfort and the temperature should be kept at 70° to 76°F.

After been evaluated the result during three different days, the average temperature measured was 88.8°F and the relative humidity 59.2% in the training area. These results are above the recommending limit and the results were consistent with the background measurements obtained from the exterior of the building. The relative humidity in the training area is between the recommending limits and was consistent with the background.

Carbon monoxide (CO) and Carbon dioxide (CO₂)

Carbon monoxide is a colorless, odorless, and tasteless gas. It results from incomplete oxidation in combustion. Auto, truck or bus exhaust from attached garages, nearby roads, or parking areas can also be a source. No standards for CO have agreed for indoor air. The US National Ambient Air Quality Standards for outdoor air are 9ppm (40,000ug/m³) for eight hours, and 35ppm for one hour. The Carbon monoxide measurements were below the permissible exposure limit during our study.

Carbon dioxide (CO_2) is a colorless, odorless product of carbon combustion. Human metabolic processes and all combustion processes of carbon fuels are sources of CO_2 . Exhaled air is usually the largest source of CO_2 . ASHRAE Standard 62 recommends an indoor level not to exceed about 700ppm above outdoor ambient air, which is typically between 300 to 400ppm. The Carbon dioxide measurements result were below the permissible exposure limits during our study.

Particulate matter (PM)

There are currently no federal government standards for PM2.5 in indoor air environments. The annual limit in National Ambient Air Quality Standards list is 15 ug/m³ and 65 ug/m³ is known as the 24-hours limit for PM2.5 in indoor air. The particulate matter in homes are related to carpet and clothing fibers, dust and dirt tracked into the home by its occupants, particles from food preparation, insect parts, plants, etc. These particles can cause symptoms such asthma, cardiac function and allergies in people, especially young children.

The result of particulate matter indicated an increase in all size range compared with the background samples from the exterior of the building. This size range of abnormal particles can be an indicator of potential risk for athletes and coaches inside the CGC.

Spore trap air filter

Spore trap samplers are capable of capture viable and non-viable fungal spores present in air. This sampler technique also captures particulate matter; quantify pollen, fiberglass, hair, skin cells, and hyphae fragments among others. If use this technique alone may miss a potential indoor air quality problem. That is why in our study we use cultivable samples and non-cultivable samples with the purpose to compare results.

The analytical result obtained from RAMS Environmental Laboratory, Inc in Miami, Florida for dust characterization by Optical Microscopy techniques indicated the presence of several fungal spore were the most predominant are Aspergillus, Penicillium and *Cladosporium* spp. These results are consistent with the cultivable samples using During the visual inspection, we observed dust accumulation SAS instrument. throughout the training area especially around the foam pit and the back rug. These finding are consistent with the dust characterization result. The results indicated the presence of dust, carbonaceous material and skin cell. After the cleaning and disinfestations process, the result obtained from the spore trap sampler indicated that the quantity of carbonaceous material, skin cell and fungal spore was decreasing significantly. Good housekeeping practices can lower the levels of the skin cell in indoor environment. However, at the same time, the quantity of dust are both >800. We observe during the cleaning process all the windows were close and actually are still close. The problem of bad ventilation in addition to maintain close window in the training area do not allow that the particulate going out the building.

Exposure plate

The purpose of this sampling technique was estimate the contamination in the study area. The results obtained in a short incubation period allow us to create strategy for obtain accurately results and avoid technical mistake in the laboratory.

Sterile carpet test

This kind of testing is very uncommon for the indoor air quality specialist. Dermathophytes are the only fungus that has evolved in a dependency of human body that is why is very common to produce coetaneous infections in peoples. This group is composed of three genera (*Microsporum, Trichophyton* and *Epidermophyton*). During our study, we identified different species for each genus. We performed after the cleaning and disinfestations process in CGC a second monitoring of sterile carpet test. The sterile carpet test results indicate that no evidence of Dermathophytes after 21 days of incubation period.

Surface monitoring using swabs

There are no governmental or federal regulations concerning permissible level of fungi and bacteria. The result obtained from this testing indicated that 98% of the total microorganisms founded in CGC was bacteria and 2% fungi (Figure 7). For the bacteria identification, we used the Vitec Senior Model 120. Before the identification, we need to have confirmed Gram stain from isolated colonies in purity plates. The result indicated that the most common pathogenic bacteria found with the Enviroswabs are Gram-positive bacteria. *Micrococcus lylae, Brevibacillus choshinensis, Sthaphylococcus epidermidis* and *Kocurria kristinae* are Gram-positive bacteria. Most pathogenic bacteria in humans are Gram-positive microorganisms. Two of these groups are *Streptococcus* and *Staphylococcus. Sphingomonas paucimobilis* is Gram-negative bacteria. Gram-negative bacteria are associated with nosocomial infections.

Air sampling

Actually there are none federal and governmental regulation concerning permissible levels of fungi and bacteria in indoor air. All the resent standards and guidelines range from 200cfu/m³ is an acceptable level for indoor environments. The ACGIH have guidelines that less than 500cfu/m³ is acceptable for certain species except for pathogenic species.

During our study, the 60.4% of the microorganisms identified were fungi and 39.6% bacteria (Figure 8). We identified 13 different fungi and 12 different bacteria. The most common pathogenic fungi are Aspergillus spp. These results are consistent with the spore trap technique. Aspergillus and Penicillium spp was the most common fungi identified in spore trap sampler. Aspergillus spp. has been associate with Aspergillosis, human carcinogenicity and be involved in respiratory cancers among food and grain workers. The result indicated that the most common pathogenic bacteria found in air samples are Gram-positive bacteria, for example Sthaphylococcus haemolyticus, Sthaphylococcus saprophyticus, Sthaphylococcus epidermidis and Bacillus megaterium. Gram-negative bacteria are Pantoea spp. The and *Klebsiella* pneumonia. Sthaphylococcus epidermidis is a human commensal bacterium. An increase number of human commensal bacteria in indoor environment may indicate high occupant density and poor ventilation; this situation may suggest an environment where airborne pathogens can be more easily spreader from person to person.

Risk communication plan

After the Caguas Gymnastic Club was monitored, evaluated and analyzed, we requested a meeting with Mr. Francisco, Director of the Department of Recreation and Sport in the Caguas municipality, in August 2010. In this meeting we discuss the results obtained on our study and some recommendations were given to him regarding a periodical disinfection plan and cleaning program of the facility (Appendix 7). This document was worked in Spanish because the people that would use this document, the first language is Spanish. The information gathered also should be shared with athletes, coaches and visitors public health specialist, empowering them with health information vital for everyone wellbeing.

CHAPTER V

CONCLUSIONS AND RECOMMENDATIONS

The gymnastics is a high-risk sport. Cuts and abrasion are inevitable for gymnastics athletes creating an elevated risk of infectious disease spread by skin-to-skin contact and contaminated equipment shared by athletes. Gymnastic mats, bars, beams, pommel horse and carpet are constant sweated increasing the environment for the growth of pathogenic microorganisms. The Caguas Gymnastic Club was builder in 1972. At the beginning the facilities was for volleyball court. For this purpose the airflow, need to be controlling for the practice of this sport. During our study, we identify the lack of airflow using the Drager Rohrchen air tube. The Caguas Gymnastic Club is a facility with high traffic of children during six day a week. During the visual assessment we can observed a lack of cleaning inside the training area.

Our results demonstrate a lot of dust, skin cell, particulate matter, fungi and bacteria inside the training area. The temperature levels in the facilities exceed the recommended by ASHRAE standards 55-2204. The Particulate matter result could be an indicator of potential risk health effect. The monitory before mitigation process revealed the presence of Dermathophytes and pathogenic microorganisms in the air and the surface that could pose a heath hazard to those in the facilities. The monitory after mitigation process demonstrated that the microbial remediation was effective. With a cleaning effectivity of Enviroswabs test = 97.44%, SAS air sampling = 80% and Sterile carpet test = 100%. After the mitigation process was performed a statistically significant difference (P-value = 0.000) between the number of cultivable bacteria and fungi before

and after the process was detected. Indicating that the process is effective in dismissing bellow the public health concerns the number of potential pathogenic microorganism in the Caguas Gymnastic Club.

With an effective method of cleaning and disinfestations of the facility we can made the microbiology remediation for Caguas Gymnastic Club. The use of an antimicrobial product (Trimethoxysilyl Quaternary Ammonium Chloride) H.E.L.P Technologies we can prevent the presence of a broad spectrum of microorganisms during approximately 90 days. With a good cleaning monitoring and good housekeeping practice, we can prevent the risk to the health of the children and coaches that use the facility.

To avoid repeated contamination we have a series of recommendations for the facilities. Is important performs a general cleaning of Caguas Gymnastic Club at least two times on a year. We recommended cleaning the carpet every six months. We recommended the fumigation each two weeks. The training area must be clean every day using Microban Disinfectant Cleaner. We highly recommended the application of XMICROBE Neutral Disinfectant Cleaner and the XMICROBE Antimicrobial-Biostatic Agent each three month. Install window screens in the training area and the side doors to avoid the entrance of insects and organic materials debris. Install nets in bars to avoid the entrance of dove. Install ceiling fan in the training area.

We have a series of limitation during our study. The Risk Communication Plan will be performed by specialized personnel, A lack of money don't give the opportunity to make other testing like Mycotoxins, Endotoxins, Fungal glucan, Fungal ergosterol, microbial volatile organic chemicals, allergens and pollens. Those testing have been use like indicator because the identification of a fungus and bacteria is not necessary proving the presence of Mycotoxins, bioactive agent associated with fever, flu symptoms and other respiratory illness; study the assess fungal biomass, allergic symptoms among others.

This study has the opportunity to other student follow our investigation with the purpose to evaluate the athletes and coaches of this facility. Is important to perform an epidemiologic survey to evaluate if athletes or coaches have been present symptoms or conditions associate with the microorganisms founded during our research.

We know that the microorganisms found during our study have a potential risk of infection for athletes and coaches in Caguas Gymnastic Club. The lacks of Standards and Guidelines for indoor environments do not give us the opportunity to evaluate the dose/responds and the exposition to humans. It is very important that the local agency and the Department of Sport create a cleaning and disinfection plan for all sports facilities to avoid bacterial and fungal infections acquired in athletic settings, including ringworm, athlete's foot, community acquired Methicillin-resistant *Staphylococcus* infection (MRSA), herpes and impetigo.

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TABLES

Id point		Date]	ſemp (°I	<u>7</u>)		RH%			CO			CO ₂	
1	Jun 09	Jun 15	Oct 06	92.0	82.8	93.8	51.8	74.5	49.9	1.7	2.9	1.3	398	460	382
2	Jun 09	Jun 15	Oct 06	92.0	82.6	94.1	51.5	72.5	49.5	1.8	2.6	1.1	390	546	378
3	Jun 09	Jun 15	Oct 06	92.7	82.4	93.1	51.5	73.6	51.7	1.8	2.3	1.3	497	690	376
4	Jun 09	Jun 15	Oct 06	90.7	82.2	93.2	52.6	72.4	53.1	1.5	2.6	1.7	380	503	393
5	Jun 09	Jun 15	Oct 06	89.8	82.4	92.3	52.7	72.3	54.9	1.5	2.6	1.2	385	570	392
6	Jun 09	Jun 15	Oct 06	88.9	82.8	91.8	56.1	70.2	55.0	1.6	2.0	1.7	395	484	411
Bkg 1	Jun 09	Jun 15	Oct 06	89.1	81.5	90.0	56.7	74.0	59.3	1.7	2.3	1.5	382	618	388
Bkg 2	Jun 09	Jun 15	Oct 06	89.6	80.8	82.2	55.8	74.6	55.3	1.4	2.4	1.5	384	562	496

 Table 1. Physical characteristics of the facilities during the first, second and third monitory

Id point		PM 0.5	5		PM 1.0			PM 2.5			PM 5.0			PM 10			TPM	
	Α	В	С	A	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
1	2.70	1.43	2.26	9.55	2.98	9.22	46.63	11.99	44.97	241.95	57.35	236.09	332.83	76.07	314.48	434.06	91.79	378.28
2	2.67	1.42	2.09	8.38	3.10	8.48	37.95	13.21	39.28	201.04	69.76	195.86	270.08	98.43	237.98	321.85	136.86	246.77
3	2.31	1.34	2.03	8.23	2.93	8.39	38.64	11.42	38.73	201.63	55.18	189.94	273.20	66.29	226.80	326.82	79.24	235.12
4	2.02	1.33	2.09	7.35	3.00	8.53	33.99	12.55	39.38	172.24	66.42	190.11	215.14	103.09	230.87	239.18	150.24	242.42
5	1.78	1.31	2.02	7.06	3.05	8.31	33.67	13.22	37.95	169.45	71.33	186.04	219.38	106.43	221.53	245.26	145.73	229.39
6	1.85	1.25	1.95	7.02	2.84	8.11	33.21	11.54	36.79	168.23	57.45	182.88	205.29	76.75	218.18	223.78	88.31	229.27
Bkg 1	1.72	1.24	1.95	6.91	2.92	8.02	33.03	12.34	35.82	161.18	63.75	167.06	188.87	87.93	191.83	201.35	117.05	205.70
Bkg 2	1.72	1.17	3.64	6.88	2.65	9.44	32.90	10.51	24.82	153.56	51.42	64.48	180.28	60.39	68.38	189.53	71.48	76.70

 Table 2. Particulate matter (PM) result during the first, second and third monitory

Sample Id	TSA plate (#CFU)	RBA plates (#CFU)	Sample Id	TSA plates (CFU)	RBA plates (#CFU)
109	TNTC	TNTC	64	TNTC	TNTC
34	TNTC	271	88	TNTC	TNTC
100	TNTC	TNTC	14	TNTC	TNTC
85	TNTC	TNTC	47	TNTC	TNTC
124	TNTC	TNTC	125	TNTC	TNTC
114	TNTC	TNTC	37	TNTC	TNTC
127	TNTC	TNTC	132	90	TNTC
29	TNTC	TNTC	68	TNTC	TNTC
102	TNTC	TNTC	17	TNTC	TNTC
43	TNTC	TNTC	6	TNTC	TNTC
105	TNTC	TNTC	75	TNTC	TNTC
26	TNTC	TNTC	38	TNTC	TNTC
16	96	TNTC	61	TNTC	81
52	TNTC	TNTC	1	TNTC	TNTC
90	TNTC	TNTC	Bkg 1	60	171
12	TNTC	TNTC	Bkg 2	TNTC	TNTC

Table 3. Exposure plate result

Sample	First Testing	Second Testing	Health effect
Back rug 1B	Blastomyces dermatidis	No growth	Cutaneous infections
Back rug 1E	Fonsecaea pedrosoi	No growth	Chromoblastomycosis
Foam pit mat	Microsporum ferrugineum	No growth	Tinea capitis
Bar	Epidermophyton floccosum	No growth	Infect skin and nail
Bar mat	Aspergillus avenaceus Scopulariopsis asperula Penicillium citrinum	No growth	Aspergillosis, cutaneous infections, corneal infections
Yellow cheese	Aspergillus avenaceus Polypaecilum insolitum Penicillium citrinum	No growth	Aspergillosis, corneal infections
Beam A	Paecilomyces viridis	No growth	Endocarditis
Pommel horse A	Phialophora richardsiae	No growth	Keratitis, cutaneous infections
Pail for legs	Trichophyton verrucosum	No growth	Infect scalp, nails, skin
Mat (baby gym)	Aspergillus avenaceus	No growth	Aspergillosis
Pommel horse B	Aspergillus avenaceus Cladosporium cladosporoide Phialophora richardsiae	No growth	Aspergillosis, pulmonary infections, cutaneous infections
Mat (pommel horse area)	Microsporum cookei Aspergillus avenaceus Phialophora reptans	No growth	Hair, cutaneous and pulmonary infections
Entrance floor	Aspergillus hollandicus Scopulariopsis asperula Scytalidium infestans	No growth	Pulmonary infections, Keratitis and cutaneous infections
Wooden cubicle	Histoplasma capsulatum Cladosporium cladosporoide Phialophora verrucosa	No growth	Pulmonary infections, hair, nail and cutaneous infections
Front rug 1A	Candida albicans	No growth	Infect skin, mucosal tract
Front rug 1B	Candida albicans	No growth	Infect skin, mucosal tract
Front rug 1C	Microsporum audouinii	No growth	Epidemic ringworm

Table 4. Sterile carpet test result

Microorganisms	Gram stain	Human health effect
Micrococcus lylae	Gram-positive	Meningitis, Endocarditis
Sphingomonas paucimobilis	Gram-negative	Bacterial infection of the bloodstream
Brevibacillus choshinensis	Gram-positive	Keratitis, urinary tract infections
Sthaphylococcus epidermidis	Gram-positive	Endocarditis
Kocurria kristinae	Gram-positive	Bacterial infection of the bloodstream

 Table 5. Most common pathogenic bacteria found with the Enviroswabs

Microorganisms	Human health effect
Aspergillus niger	Aspergillosis, human carcinogenicity
Penicillium chrysogenum	Potential hazard for human
Aspergillus avenaceus	Opportunistic invaders that cause Aspergillosis
Aspergillus clavatus	Opportunistic invaders that cause Aspergillosis
Acremonium curvulum	Corneal infection, and nail infection
Curvularia clavata	Chronic allergic sinusitis with cerebral involvement

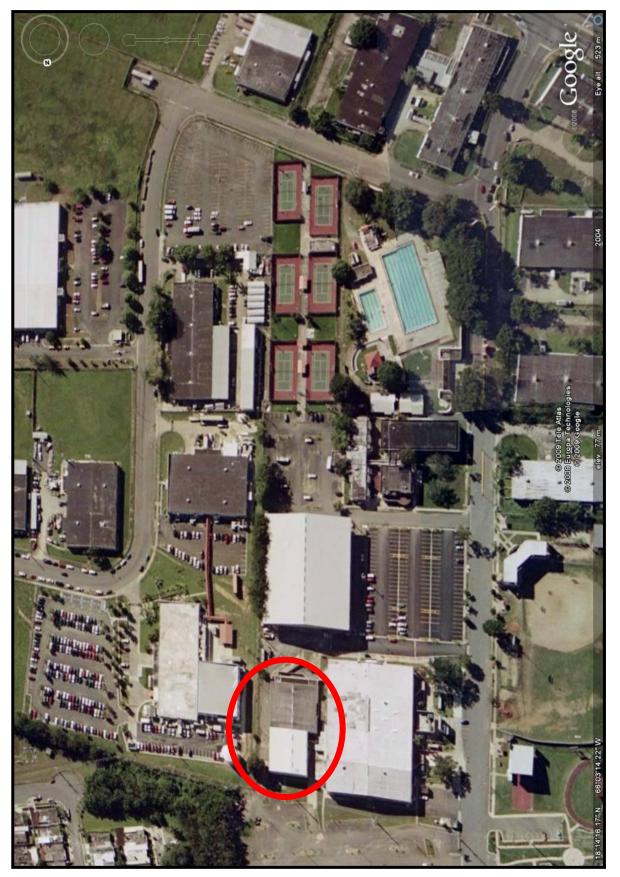
 Table 6. Most common pathogenic fungi found in air sampling

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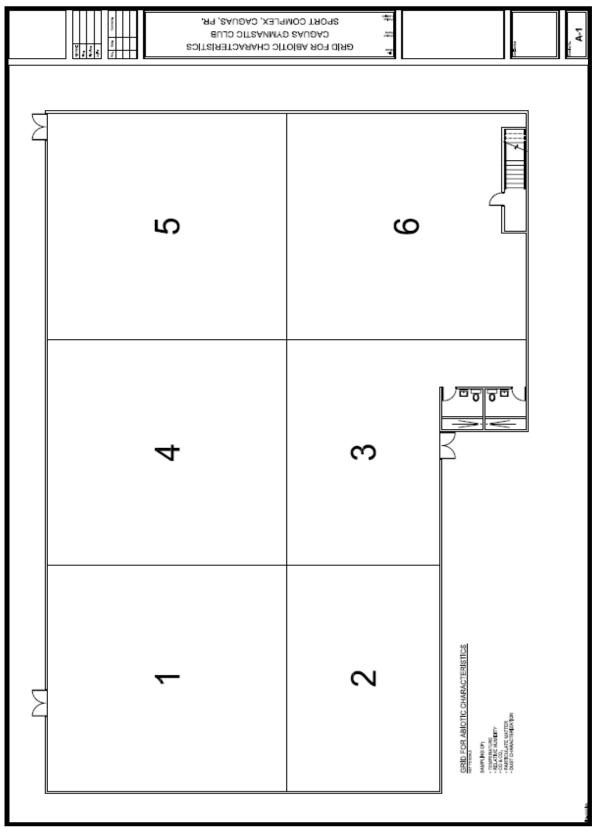
Microorganisms	Gram stain	Human health effect
Sthaphylococcus haemolyticus	Gram-positive	Conjunctivitis, infection in urinary tract
Sthaphylococcus saprophyticus	Gram-positive	Acute urinary tract infections
Pantoea spp.	Gram-negative	Opportunistic pathogen
Klebsiella pneumoniae	Gram-negative	Respiratory tract infections
Bacillus megaterium	Gram-positive	Involved in opportunistic infections
Sthaphylococcus epidermidis	Gram-positive	Opportunistic pathogen

 Table 7. Most common pathogenic bacteria found in air sampling

FIGURES







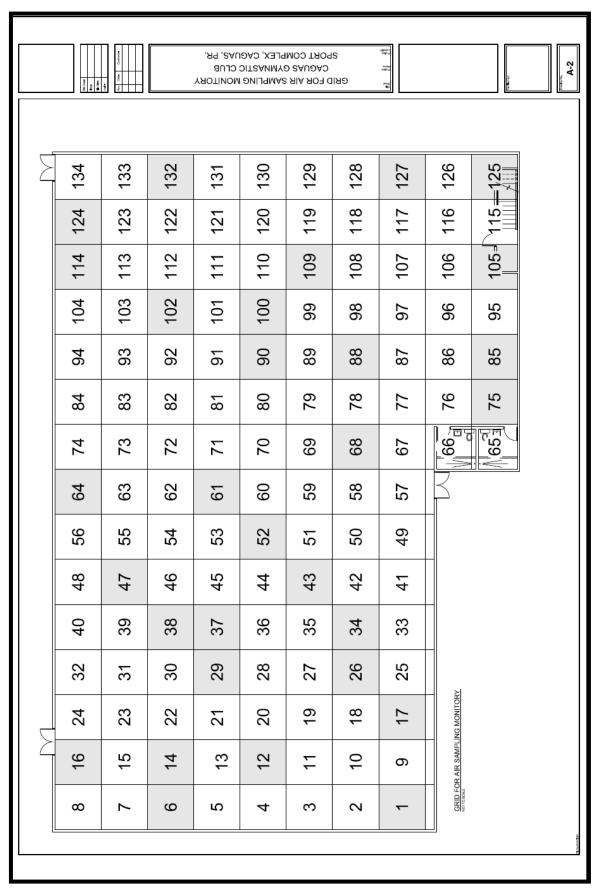
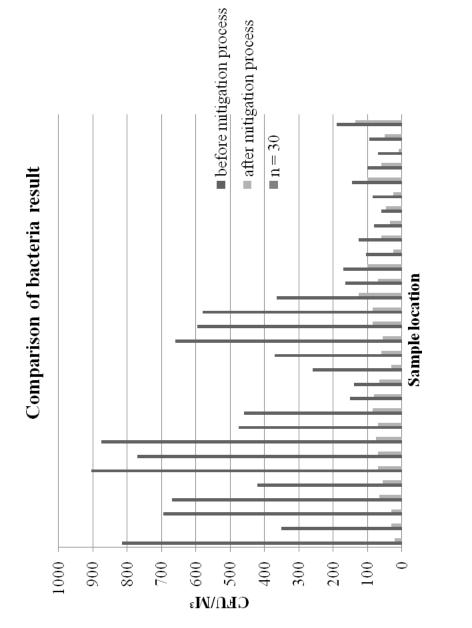
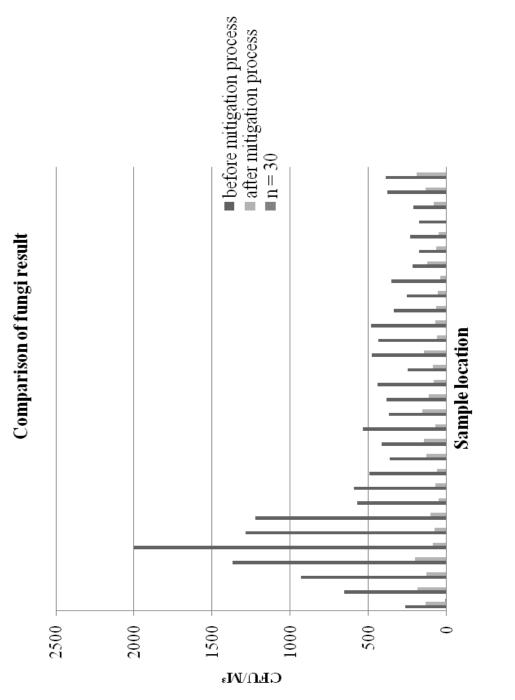
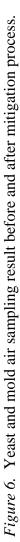


Figure 4. Grid for the physical-chemical sampling monitory.









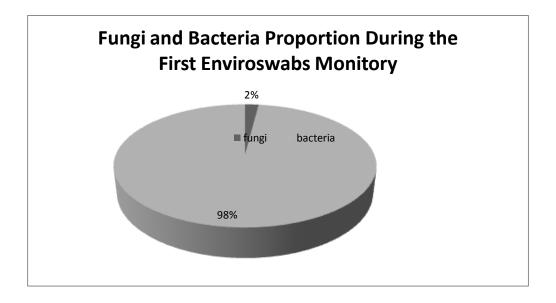


Figure 7. Proportion of fungi and bacteria after the first Enviroswabs monitory.

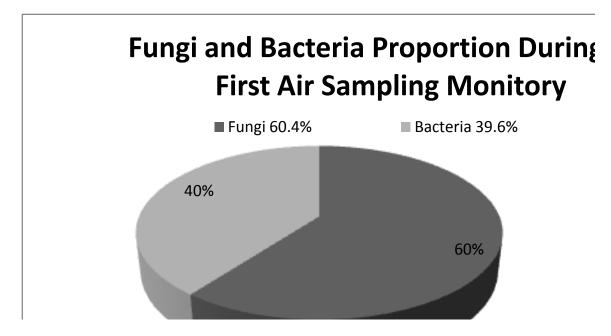


Figure 8. Proportion of fungi and bacteria after the first air sampling.

APPENDIX

Appendix 1. Particle Dust Characterization Analytical Result First Monitory



Client Project ID: <u>Investig</u> REL Report No.: <u>REL03</u> Lab Sample ID Coation REL09219PCA -01 443343 #1	ación de Te	Stucture ID		Date Sampled: Date Received: Date Analyzed: Counte/m8	June 12, 2009
Client sample ID Location REL09219PCA -01 143343 #1 REL09219PCA -02	(m3)			Counts/m ⁸	
443343 #1 REL09219PCA-02					Percentage
443343 #1 REL09219PCA -02	0.075				
REL09219PCA -02 443336		Carbonaceous Materiais Dust ^{e f}	92 >800	4,784	NA NA
REL09219PCA -02		Fibers	>000	>41,600	NA
		Natural	9	468	NA
		Wood	1	52	NA
		Fungal Matter			
		Alternaria	1	52	NA
		ascospores	8	416	NA
		Cladosporlum Curvularia	26 3	1,352 155	NA NA
		Curvularia Myxomycetes/Periconia/Rusts/Smuts	3	156	NA
		Nigrospora	1	52	NA
		Penicillum/Aspergillus*	57	2.964	NA
		Human Halr	3	156	NA
		Insect Parts	2	104	NA
		Plant Cells Matter	1	52	NA
		Skin Cells	494	25,688	NA
		TOTAL	>1,499	>77,948	NA
443336	0.075	Carbonaceous Materials	51	2,652	NA
		Dust ^{er}	>800	>41,600	NA
# 2		Fibers			
		Natural	13	676	NA
		Wood	2	104	NA
		Fungal Matter Alternaria	3	156	NA
		ascospores	5	260	NA
		Cladosportum	19	988	NA
		Curvularia	8	416	NA
		Ganoderma	ž	104	NA
		Myxomycetes/Periconia/Rusts/Smuts	8	416	NA
		Nigrospora	2	104	NA
		Human Hair	3	156	NA
		Insect Parts	5	260	NA
		Skin Cells	290	15,080	NA
		TOTAL	>1,211	>62,972	NA
REL09219PCA -03	0.075	Carbonaceous Materiais Dust ^{e f}	103	5,356	NA
443351			>800	>41,600	NA
#3		Fibers Natural	3	156	NA
		Synthetic	2	104	NA
		Wood	3	156	NA
		Fungal Matter	-		
		ascospores	4	208	NA
		Gliomastix	2	104	NA
		Myxomycetes/Periconia/Rusts/Smuts	15	780	NA
		Nigrospora	2	104	NA
		Penicillum/Aspergillus*	11	572	NA
		Human Hair	9	468	NA
		Pollen Skin Cells	1 145	52 7,540	NA NA

Page 1 of 3

Detection Limit: one fungal spore which is the lowest possible count to be detected. Concentration percentage is rounded to two significant figures

Some source of the second second

- ^b Counts of structures based on >50 in at least one traverse (passes) section.

- ⁶ Counts of structures based on >100 counts in the entire traceable area observed.
 ⁶ Clumps of conida with a distinctive green pigment typical of Trichoderma.
 ⁸ The spores of Penicillium/Aspergillus (and others such as Acremonium, Paecilomyces) are very similar, small and round, coloriess or slightly pigmented and therefore cannot be differentiated due to these similarities.
 ¹ The dust observed was composed of minute solid coloriess particles.

Approved by: ____

Rober

Ruth Otero Laboratory Director

Page 3 of 3

Appendix 2. Particle Dust Characterization Analytical Result Second Monitory



		Particle Dust Characteriz	ation		
Client: Waleska Diaz Mi	uñoz Lirb VI	la Victoria Calle 11 P-8,Caquas,PR 00725		Date Sampled:	October 6, 2009
Client Project ID: Invest					October 13, 2009
REL Report No.: <u>REL</u>		<u></u>			January 11, 2010
Lab Sample ID					
Client sample ID	Air vol.	Stucture ID	Counts of	Counte/m8	Percentage
Location	(m3)		Structures		
REL09400PCA -01		Carbonaceous Materiais	24	1.248	3%
	0,075				
443314		Dust ^{e, f}	>800	>41,600	93%
#1		Fungal Matter	4	208	<1%
		ascospores	4	208	
		basidiospores Curvularia	2	104	<1% <1%
			_		
		Ganoderma Skin Cells	4	208 832	<1% 2%
		Starch	10	624	2%
		ataron	12	024	176
		TOTAL	>864	>44,928	100%
REL09400PCA -02	0,075	Carbonaceous Materials	16	832	2%
443333		Dust ^{c, f}	>800	>41,600	97%
# 2		Fungal Matter			
		Curvularia	1	52	<1%
		Drechslera/Bipolaris/Heiminthosporium	1	52	<1%
		Skin Cells	8	416	1%
		TOTAL	>826	>42.952	100%
REL09400PCA -03	0,075	Carbonaceous Materials	24	1.248	3%
443312	-,	Dust ^{c, f}	>800	>41,600	93%
#3		Fungal Matter		-41,000	2014
		Drechslera/Bipolaris/Heiminthosporium	1	52	1%
		Skin Cells	32	1.664	4%
		TOTAL	>857	>44.564	100%
REL09400PCA -04	0.075	Carbonaceous Materials	16	832	2%
443325		Dust ^{c, f}	>800	>41.600	92%
#4		Fungal Matter		-41,000	22.10
		Curvularia	1	52	<1%
		Drechslera/Bipolaris/Heiminthosporium	1	52	<1%
		Fusarium	1	52	<1%
		Penicilium/Asperallus*	22	1.144	3%
		Skin Cella	24	1.248	3%
		TOTAL	>865	>44,980	100%
REL09400PCA -05	0.075	Carbonaceous Materials	24	1.248	3%
	0,075	Carbonaceous Materials Dust ^{c, f}			
443311 #5		Fungal Matter	>800	>41,600	97%
		ascospores	2	104	<1%
		Pollen	1	52	<1%
		r silen		02	×176
		TOTAL	>827	>43,004	100%
REL09400PCA -06	0,075	Carbonaceous Materials	40	2.080	5%
443323		Dust ^{c, f}	>800	>41,600	91%
#6		Fungal Matter			
		Cladosportum	26	1.352	3%
		Insect Parts	1	52	<1%
		Skin Cells	16	832	2%
		TOTAL	>883	>45.916	100%

Page 1 of 2

Lab Sample ID Cilent sample ID Location	Air vol. (m3)	Stucture ID	Counts of Structures	Counte/m8	Percentage
REL09400PCA -07	0,075	Carbonaceous Materials	16	832	2%
443320 Bg 001		Dust ^{e, f} Fungal Matter	>800	>41,600	98%
59.001		ascospores	2	104	<1%
		Curvularia	1	52	<1%
		Nigrospora	1	52	<1%
		TOTAL	>820	>42,640	100%
REL09400PCA -08	0,075	Carbonaceous Materials	24	1.248	3%
443348		Dust ^{c, f}	>800	>41,600	93%
Bg 002		Starch	40	2.080	5%
		TOTAL	>864	>44,928	100%

Detection Limit: one fungal spore which is the lowest possible count to be detected. Concentration percentage is rounded to two significant figures 25% of trace counted

* Samples overloaded with particles (skin flakes, dust, manmade vitreous fibers, synthetic fibers, or any unidentifiable

matter). Probability that fungal structures may be misidentified or overlooked. ^b Counts of structures based on >50 in at least one traverse (passes) section.

* Counts of structures based on >100 counts in the entire traceable area observed.

^d Clumps of conidia with a distinctive green pigment typical of Trichoderma.

* The spores of Penicillium/Aspergillus (and others such as Acremonium, Paecilomyces) are very similar, small and round, coloriess or slightly pigmented and therefore cannot be differentiated due to these similarities.
* The dust observed was composed of minute solid coloriess particles.

^e The dust observed was composed of builders sand, brick dust and road dust like particles.

Rober Approved by: ___ Ruth Otero

Laboratory Director

Page 2 of 2

Appendix 3. Sterile Carpet Analytical Report (#10554)

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INDUSTRIAL PO BOX 6670 BAYAMON PR 80990 TEL 787-626-8800

FDA No. 30033383013

CLENDO CONTROL NO. 10554

Page_1_of_1_

CUSTOMER SAMPLE ANALYSIS REPORT

WALESKA DIAZ A. CUSTOMER NAME B. CLIENT NUNBER 0590 C. ADDRESS Urb. Villa Victoria Caguas P.R. 00725 D. TELEPHONE 787-429-6644 E. FAX N/A WALESKA DIAZ F. CONTACT PERSON G. DATE AND TIME OF SAMPLE RECEIPT 07-29-09 / 16:30 H. DATE / TIME OF SAMPLING N/A / N/A 1. QUANTITY AND TYPE OF SAMPLES 7 SDA PLATES J. SAMPLE CONDITION K. SAMPLES COLLECTOR NAME CLIENT L. DATE/TIME ANALYSIS BEGINS: 07-29-09 / 16:50 M. RESULTS PROCEDURE PERFORMED AS PER: SOP No.300-027 ISOLATION AND IDENTIFICATION OF YEASTS AND MOLDS **REFERENCES:** ATLAS OF CLINICAL FUNGI 2ND EDITION 2000 INTRODUCTION TO FOOD-AND AIRBORNE FUNGI SIXTH EDITION 2010 DAVISE H. LARONE, MEDICALLY IMPORTANT FUNGI-A GUIDE TO IDENTIFICATION 3RD EDITION-1995 SAMPLE **IDENTIFICATION** 10554-1 Fonsecaea pedrosol "Alfombra Posterior" 10554-2 *Alfombra Caballo con Phialophora reptans Alzones" 10554-3 Phialophora richardsiae "Caballo con Alzones" 10554-4 Microsporum ferrugineum "Matress de Fosa" 10554-5 Microsporum audouinii "Alfombra Frontal" 10554-6 Phialophora verrucosa "Cubiculos de Madera" 10554-7 Candida krusei "Piso Entrada" N. COMMENTARIES Refer to attached Yeasts/Molds Identification Forms! Performed by: Giorimar Velazco-Lab Analyst DATE 09/21/09 Approved by: Lizzette M. Rivera, BSMT - Laboratory Director (Lic.2015) 09/21/09 DATE uuu

	and and	- A V D O	CR-073
3	CLE	ENDO	SOP No.300-027
		caboratories inc	IM CONTROL NO. 346
	IDENTIFI	CATION OF MC	LDS
ISOLATE N	o.: 10554-1	CUSTOMER: WALE	ska Díaz
	MACROSCO	DPIC EXAMINAT	and another an
SAMPLE	COLONY DESCRIPTION		PIC APPEARANCE
	Color:		<
-	DADK OLIVE NEABLY BLACK	()	(_)
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	HICKOCCC	PIC EXAMINAT:	
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	DESCRIPTION		****
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	HAVING SMALL DARK HELA (SCARS OF THAT BEADY BREAK LOOSE FROM	41	
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	EXTREMETEES: BUT ARE SOMETEMES IN OTHER ORGANISM HAS BEEN KNOWN TO CAUSE INTER		EAD REGION OR TRUNK, ON VERY RARE
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Воттом	COLOR: MLACK		
		SCOPIC EXAMIN	
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IDENTIFI	CATION: PHIALOPHORA	REPTANS	
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PERFORME	D BY: GLOREMAR VELAZCO	Allan	DATE: 09-08-09
DEVTEWER	BY: LIZZETTE M. RIVERA	llu/	DATE: 09-08-09
REVIENCE			

	IDENTIFI	CATION OF MOL	DS
ISOLATE N	o.: 10554-3	CUSTOWER: WALESKA	DÍAZ
	MACROSCO	PIC EXAMINATIO	N
SAMPLE	COLONY DESCRIPTION	MACROSCOPIC	APPEARANCE
	Color: GRAVISH-BROWN	<u>(</u>	
Тор		(. '-)
	APPEARANCE: PONDERY	\sim	

	COLOR: GREY-BROWN	(1	
BOTTOM			:)
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		E CULTURE CHAMBER	14
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TAPERING MILA	LIDES WITH FLARING COLLARETTES. TYPES ARE OFTEN RESENT.		
IDENTIFI	CATION: PHIALOPHORA REP	TANS	
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By:	LEZZETTE M. REVERA	0	lun	DATE:	09-08-09
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CHLAMYDOC POINTED ON ARE COMMO USUALLY AL SOMETIMES ABORTIVE M OCCASIONA IDENTICAL SPECIES OF IDENTIFI	THE END MOST DEV FORMS P ACROCOM LLY MICRO TO THOSE MICROSP	THIS SPECIES IS NOID OF CONIDIA BUT GORLY SHAPED, NIDIA OR OCONIDIA HTAT ARE COCURING IN OTHER ORUM	FERRUGINE	CALL CONTRACTOR OF CONTRACTOR	M		¢
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CHLAWYDOC POINTED ON ARE COMMO USUALLY AL SOMETIMES ABORTIVE M OCCASSIONA IDENTICAL SPECIES OF IDENTIFI WORLD- WID SOILS. ARE PROTEIN; TH	THE END NLY SEEN MOST DEV FORMS P ACROCON LLY MICRO TO THOSE MICROSP CATION E DESTREM FOLAMENT E PRIMARY ENVADED	THIS SPECIES IS NOTO OF CONTENT ABUT OORLY SHAPED, INTEL OR COONTENT AT ARE COCURENTS IN OTHER ORUM MICROSPORUM JUSION; GEOPHILIS ORMA OUS PUNCT THAT ARE AD	FEREVICINEL ATOPHYTES, OC LE TO DIREST A WER, AND NAIL	CURRING ON P IND OBTAIN N 5). WHEN T	L/TRIENTS FROM 12 ORGANISM GRO	KERATIN (TWS ON THE	A RELATIVELY INSOLUBLE HE HOST, LIVING TISSUE I

		aboratories Inc.	IM CONTROL NO. 351
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130DATE N		PIC EXAMINATION	
SAMPLE	COLONY DESCRIPTION	MACROSCOPIC	
Тор	Color: DARK GREENSH-BROWN APPEARANCE: GRANLAR)
Воттом	COLOR: BLACE)
	APPEARANCE: FELT-LIKE	\sim	/
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IDENTIFI	CATION: PHIALOPHORA REPT	TANS	
	MOBLASTOMMODSLS, OF WHICH IT IS THE SECOND TS ALSO AN ETIOLOGIC AGENT OF PLAEDHWHOMY		
PERFORME	E D BY: GLOREMAR VELAZCO IGU	UND DATE	: 09-08-09
REVIEWED	BY: LEZZETTE M. REVERA	ULU DATE	: 09-08-09
	\mathcal{O}		

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Appendix 4. Enviroswabs Analytical Report

(# 10558, #10559)

CLENDO

INDUSTRIAL PO BOX 579 BAYAMON PR 00960 TEL 787-620-8800 FAX 787-999-7149 Email: clendoind@prtc.net

FDA No. 30033383013

CLENDO CONTROL NO. 10558

CUSTOMER SAMPLE ANALYSIS REPORT

Page 1 of 2 A. CUSTOMER NAME WALESKA DIAZ **B. CLIENT NUMBER** 0590 URB. VILLA VICTORIA CAGUAS P.R. 00725 C. ADDRESS D. TELEPHONE 787-429-6644 E. FAX N/A F. CONTACT PERSON WALESKA DIAZ G. DATE /TIME OF SAMPLE RECEIPT 06-15-09 / 11:55 H. DATE / TIME OF SAMPLING 06-15-09 / 11:30 I. QUANTITY OF SAMPLES 24 ENVIROSWABS J. DESCRIPTION OF SAMPLES K. SAMPLES COLLECTOR NAME SAMUEL SERRANO L. DATE/TIME ANALYSIS BEGINS: 06-15-09 / 13:00 M. RESULTS

PROCEDURE PERFORMED AS PER:

SOP NO.100-023 PROCEDURE FOR ENVIRONMENTAL AIR SAMPLING USING SAS SUPER 100 SURFACE AIR SYSTEM

REFERENCES:

"MANUAL OF ENVIRONMENTAL MICROBIOLOGY" 2nd EDITION 2002

ENVIROSWABS SAMPLING							
SAMPLE	BACTERIA (2 ND DAY COUNT)	YEAST/MOLD (7 TH DAY COUNT)	IDENTIFICATION				
10558-1 MENS BATHROOM	TNTC COLONIES/50cm ²	0 COLONIES/50cm ²	N/A				
10558-2 GIRLS BATHROOM	TNTC COLONIES/50cm ²	0 COLONIES/50cm ²	89% Brevibacillus choshinensis				
10558-3 RIGHT SIDE HALLWAY	2000 COLONIES/50cm ²	30 COLONIES/50cm ²	91% <u>Staphylococcus epidermidis</u> <u>Aspergillus avenaceus</u>				
10558-4 LEFT SIDE HALLWAY	TNTC COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>				
10558-5 WOODEN CUBICLE RIGHT	TNTC COLONIES/50cm ²	0 COLONIES/50cm ²	98% <u>Staphylococcus xylosus</u> 86% <u>Kocurria kristinae</u>				
10558-6 WOODEN CUBICLE LEFT	2300 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>				
10558-7 FRONT FLOOR (A) RIGHT	TNTC COLONIES/50cm ²	250 COLONIES/50cm ²	Streptomyces somaliensis				

CLENDO

INDUSTRIAL PO BOX 579 BAYAMON PR 00960 TEL 787-620-8800 FAX 787-999-7149 Email: clendoind@prtc.net

FDA No. 30033383013

CLENDO CONTROL NO. 10558

CUSTOMER SAMPLE ANALYSIS REPORT

10558-8 FRONT FLOOR (B) LEFT	2240 COLONIES/50cm ²	215 COLONIES/50cm ²	97% <u>Sphingomonas paucimobilis</u>
10558-9 FRONT RUG (A)	2370 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>
10558-10 FRONT RUG (B)	110 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>
10558-11 FRONT RUG (C)	2560 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>
10558-12 FRONT RUG (D)	150 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>
10558-13 BACK RUG (A)	140 COLONIES/50cm ²	10 COLONIES/50cm ²	<u>N/A</u>
10558-14 BACK RUG (B)	2650 COLONIES/50cm ²	30 COLONIES/50cm ²	98% <u>Sphingomonas paucimobilis</u>
10558-15 BACK RUG (C)	500 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>
10558-16 BACK RUG (D)	208 COLONIES/50cm ²	0 COLONIES/50cm ²	86% Staphylococcus equorum
10558-17 FLOOR MATS (A)	2410 COLONIES/50cm ²	90 COLONIES/50cm ²	85% <u>Bacillus mycoides</u>
10558-18 FLOOR MATS (B)	40 COLONIES/50cm ²	25 COLONIES/50cm ²	89% <u>Bacillus fusiformis</u> <u>Aspergillus orizae</u> <u>Aspergillus avenaceus</u>
10558-19 FLOOR MATS (C)	1780 COLONIES/50cm ²	15 COLONIES/50cm ²	89% <u>Sphingomonas paucimobilis</u> 95% <u>Micrococcus Iylae</u>
10558-20 FLOOR MATS (D)	40 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>
10558-21 FOAM PIT (A)	100 COLONIES/50cm ²	0 COLONIES/50cm ²	<u>N/A</u>

CLENDO INDUSTRIAL TR. 727480-9900 LABORATORY Ref Concepts Environment Co

CLENDO CONTROL NO. 10558

10558-22 FOAM PIT (B)	200 COLONIES/50cm ²	0 COLONIES/50cm ²	94% Staphyloco	OCCUS X	viosus
10558-23 RINGS A (BABY GYM)	40 COLONIES/50cm ²	0 COLONIES/50cm ²	NZ	A	
10558-24 RING B	30 COLONIES/50cm ²	0 COLONIES/50cm ²	NV	A	
PRINCIPLE OF THE SUR		SUPER 100: AIR IS ASPIRA			
STUDY-1,000L FOR CL SERIES OF SMALL HOLES AGAR SURFACE OF A 1 EXAMINATION TO BE I REMOVED AND INCUBAT	EAR ROOMSHMINUTES) OF A SPECIAL DESIGN CONTACT PLATE' CONT/ PERFORMED, WHEN THE ED. THE ORGANISMS AF FOR AN ASSESSMENT (OR 1.42 CFU / FT ³ OF YE) IS CONSIDERED A	THROUGH A COVER WHICH	H HAVE BEEN MACH AIR FLOW IS DEIRE INT WITH THE MICRI E IS COMPLETED, TI AKED EYE AND CAJ INATION.	HINED V CTED C OBIOLO HE PLA N BE CC	WITH A ONTO THE IGICAL ITE IS
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CLENDO INDUSTRIAL LABORATORIES

bioMerieux Customer: 06365 System #:

Laboratory Report

By: jayala

Printed Sep 8, 2009 11:27 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-2-1 Last Updated: Jul 15, 2009 13:28 GMT-04:00

Bionumber: 1703101004014020 Selected Organism: Brevibacillus choshinensis

Comments:	

Identification	Card:	BCL	Lot Number:	239124110	Expires:	May 8, 2010 12:00 GMT-04:00
Information	Completed:	Jul 3, 2009 03:19 GMT-04:00	Status:	Final	Analysis Time:	14.25 hours
Selected Organism	89% Probabi	ity	Brevibacill	us choshiner	nsis	
oeleoteu organiam	Bionumber:	1703101004014020			Confidence:	Low discrimination
SRF Organism						
Analysis Organisms and T	ests to Separa	ste:				
Alicyclobacillus acidoterrestris	VP(90),GELA	TIN(90),50C(90),NaCl	5%(90),			
Brevibacillus choshinensis	VP(10),GELA	TIN(10),50C(10),NaCl	5%(10),			
Low Discrimination Organism						
Analysis Messages:						
Contraindicating Typical E	liopattern(s)					
Alicyclobacillus acidoterrestris	BGLU(12),AG	GLU(1),dGLU(70),BXYI	.(12),OLD(70	J),PyrA(70),		
Brevibacillus choshinensis	BGLU(24),AG	GLU(12),BXYL(12),dRI	B(6), AspA(70	5),PyrA(88),Gł	γA(76),	

1	BXYL	+	3	LysA.		4	AspA	ŀ	5	LeuA	+	7	PheA	+	8	ProA	+
9	BGAL		10	PytA		11	AGAL	•	12	AlaA	+	13	TypA	+	14	BNAG	
15	APPA	+	18	CDEX	ŀ	19	dGAL	ŀ	21	GLYG		22	INO		24	MdG	-
25	ELLM	+	28	MdX		27	AMAN	-	29	MTE		30	GiyA	-	31	dMAN	-
32	dMNE		34	dMLZ	•	36	NAG	-	37	PLE		39	IRHA		41	BGLU	+
43	BMAN		44	PHC		45	PVATE		46	AGLU	+	47	dTAG		48	dTRE	
50	INU	-	53	dGLU	-	54	dRIB	+	56	PSCNa	-	58	NaCl 6.5%	 (-) 	59	KAN	-
60	OLD		61	ESC	+	62	TTZ	Ŀ	63	POLYB_R							Т

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

CLENDO INDUSTRIAL LABORATORIES bioMerieux Customer: 06365 Laboratory Report Printed Sep 8, 2009 11:27 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3 System #: Isolate Group: 10558-2-1 Last Updated: Jul 15, 2009 13:28 GMT-04:00 By: jayala Bionumber: 1703101004014020 Selected Organism: Brevibacillus choshinensis Action Name (User ID) Date/Time Comment Reviewed by: Glorimar Velazco (gvelazco) Sep 8, 2009 11:27 GMT-04:00 July 200 11: July 200 09-08-08 VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name: Therapeutic Interpretation Guideline: AES Parameter Last Modified: Page 2 of 2

MICROBIAL ISOLATE CHARACTERIZATION Colerry No. 1 2 3 Colorry No. 1 2 3 1 Type of Teolote x 3 Colorry No. 1 2 3 1 Type of Teolote x 3 Evention 1 2 3 1 Type of Teolote x 3 Evention 1 2 3 1 Gram Post inte x 5 Evention 1 2 3 1 Gram Post inte x Control 1 2 3 6 Mathematic x Control 1 2 3 6 Filet Unduction 1 2 3 2 6 Filet Unduction 1 2 3 2 6 Filet Uniterion 5 2 2 2 6 Filet Nonescing Nonescing 1 2 3 2 6 Envire x Contexes x 2 2 2 1 Gram Negative x Servicas x 2 2 1 Gram Negative 4	E CHARACTERIZATIC 1 2 3 0.517 1 2 3 0.517 2 5 15010 x 8 br x 19010 x 19010 x 9010 chool	ATION Costones Nave: 341 Costones Nave: Waleska biaz
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all 4, Surface x 6, Surface x 5, Smooth all cad Sight Grandor x 8udhraus x 8udhraus yement 5, Edge gement 0, obote x 0, obote		sensu stricto four new species and an
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gement	and	and its protein secretion productivity is excellent.
1 1	Is us	Is used as a host for protein pharmaceuticals and
1	the	the like, it is also desired that it does not form
	spore	spores and is readily sterilized.
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2. Form V. Biochemistry Reactions	Total States	They
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Irregular Gelatin		
Filamentous	REVIE	1
Punctiform		DATE: 09-08-09
Rhizold		
IDENTIFICATION METHOD: VITEK 2 Compact		
IDENTIFIED AS: 89% Brevibacillus choshinensis (Bacillus brevis)	orevis)	

	s epider	midis								Re	port Version	: 2 of 2
Bionumber: 000400032221011 Selected Organism: Staphylococcu	s epider	midis										
Selected Organism: Staphylococcu	s epider	midis										
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Information Com	pleted:		19,2009 22:47 F-04:00	Sta	itus:	Final		Analysis Time:		7.75	hours	
Selected Organism	Probabi	lity		Sta	phyloco	ccus e	pider	midis				
Bion	umber:	000	400032221011					Confidence	91	Good	identificatio	n
SRF			. /									
Organism	-	_	1/2 0	4	,							
Analysis Organisms and Tests t	o Separ	ate:	and g	U	/							
					2pt	>	70.0					
Analysis Messages:							01	1-2-				
								-34	0			
Contraindicating Typical Biopatt	ern(s)							1232	L	_		
Staphylococcus epidermidis O125	R(99),A	DH1	(91),BACI(84),								-	
epidermais												
Biochemical Details												
2 AMY - 4 PIPLC	_	5	dXYL -	8	ADH1	-	9	BGAL	T	11	AGLU	-
13 APPA - 14 CDEX		15	AspA -	16	BGAR	- i-	17	AMAN		19	PHOS	(*)
20 LeuA - 23 ProA	ľ	24	BGURr -	25	AGAL	- É	26	PyrA	É	27	BGUR	- (-)
28 AlaA - 29 TyrA	- F	30	dSOR -	25	URE	+	32	POLYB	+	37	dGAL	-
	- Ē	42	LAC -	44	NAG	ľ	45	dMAL	Ť.	46	BACI	-
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	- 17	-	-IMAANI	163-3	DISTRICT	+	0.4	W0000	100		100	
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	+	-	dMAN - SAL -	60	SAC	+	62	dTRE	ŀ	63	ADH2s	-

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Prese.	Ł	15	Ū	I leivast	Industrial Laboratories	ori	0	Inc.	W	MLC Control Number: 157
				¥	MICROBIAL ISOLATE CHARACTERIZATION	VIE CH	IARAC	TERIZATIO	z	
Colomy No.	1	2	-	Cel	Colory No.	1	~4	3		An owner when
L Type of Isolate	No.		100	3. Elevation	6			-	CUSTOMER NAME:	WALESKA DIAZ
Bocteria	×			Flat						
Fungi				Sligh	Slightly Umbonate	×		TROL	TSOLATE NUMBER:	1-5-90001
II. Gram Stain	1000			Crat	Gratenform					
Gram Positive	×	L		Spre	Spreading	L				
Gram Negative				Raised	ed	×				
Gram Variable				Convex	3					
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Bacilli				SHO	Smooth: alistering	×		S 75	e human si	is the human skin, cutaneous ecosystem,
Coco-Bacilli				Dull				inclus	ding also 1	including also the mucous membranes of the
Single	×			Gra	Granular			lospu	oharymx ar	hasopharynx and other areas adjoining the
Pairs	×			Rough	-uo			Warvo	us body of	various body openings. It is considered as an
Tetrads	×			Som	Somewhat Butyrous	×		-unit	non-thuistic nethoden	throad
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Clusters				Entire	2	×				
Palisade				Mod	Moderate Undulate	2				
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				Filer	Filamentous					100.000
2. Form				V. Biochemistry Reactions	y Reactions			13)	Ama
Circular	×			Catalase		+		PERFO	PERFORMED BY:	Glerimar "Welagco. Microbiologist
Irregular				Coogulase		,			DATE:	09-23-09////
Feathery								actual actual	POCKEMEN BN I THINK	ULUUUU
Punctiform								1111	DATE:	DA-26-00
Rhizoid	_			San San	Shines -				12.1	
IDENTIFICATION METHOD: VITEK 2 Compact System	METHOD	5	Ě	Compact	System					
	4									
IDENTIFIED AS: 91% STOPHYIOCOCCUS EDIDERMICIS	11% 0	d	ŝ	coccus epi	dermidis					

ISOLATE NO! 10558-3-2 CUSTOMER: WALESKA DIAZ M A G R O S C O P I C E X A M I N A T I O N SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANS Top COLOR: YELLOWISH GREEN WITH PINK EDGE Image: Color	CE
MACROSCOPIC EXAMINATION SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANT Top Color: Yellowish green with pink EDGE Image: Color: Color: Yellowish green with pink Image: Color: Color: Yellowish green with pink Appearance: cottony Image: Color: Color: Yellowish green with pink Image: Color: Yellowish green with pink	Æ
SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top COLOR: YELLOWISH GREEN WITH PINK EDGE APPEARANCE: COTTONY	Œ
Top COLOR: YELLOWISH GREEN WITH PINK EDGE APPEARANCE: COTTONY	
COLOR : CREAMY BROWN	
Воттом	
APPEARANCE: WAXY	
LONG CONIDIOPHORES BORNE FROM SURFACE HYPHAE, STIPES WITH UNCOLOURED, SMOOTH WALLS; OVOID VESICLES, BEARING CROWED METULAE AND PHEALIDES ON ITS ENTIRE SURFACE: CONIDIA ELLIPSOIDAL IN CHAINS.	
IDENTIFICATION: ASPERGILLUS AVENACEUS	
SPECIES OF ASPERGILLUS ARE OPPORTUNISTISTIC INVADERS THAT CAUSE GROUP OF DISESES KNOWN AS ASPERGILLOSIS. ARE WIDESPREAD IN THE ENVIRONMENT AND ARE COMMONLY FOUND S CONTAMINANTS	
	29-09

CLENDO INDUSTRIAL LABORATORIES

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 23, 2009 09:34 GMT-04:00 Printed by: gvetazco Report Version: 2 of 2

Isolate Group: 10558-5-1

Bionumber: 430446417373231 Selected Organism: Staphylococcus xylosus

	nh All. a
Comments:	Mulgo Qu-22
Contraction of the	-209

Identification	Card;	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 19, 2009 21:02 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
Selected Organism	98% Probabi Bionumber:		Staphyloo	occus xylosu	s Confidence:	Excellent identification
Organism		nl				
Analysis Organisms and '	ests to Separ	ato: 19	Ilut.	22		
Analysis Messages:			Y	206		
Contraindicating Typical I Staphylococcus xylosus	Biopattern(s) dSOR(19),				And a	2

Bio	chemica	l De	tails														
2	AMY	-	4	PIPLC	-	5	dXYL	+	8	ADH1	+	9	BGAL	+	11	AGLU	-
13	APPA		14	CDEX	-	15	AspA	-	16	BGAR	-	17	AMAN	-	19	PHOS	+
20	LeuA	-	23	PmA		24	BGURr		25	AGAL		26	PyrA	+	27	BGUR	+
28	AlaA	•	29	TyrA	-	30	dSOR	+	31	URE	+	32	POLYB	-	37	dGAL	-
38	dRIB	+	39	ILATK	+	42	LAC	+	44	NAG	+	45	dMAL.	+	46	BACI	-
47	NOVO		50	NC6.5	+	52	dMAN	+	53	dMINE	+	54	MBdG	+	56	PUL	-
67	dRAF		58	0129R	+	59	SAL		60	SAC	+	62	dTRE	+	63	ADH28	-
64	OPTO	+	-												1		-

Action

Name (User ID) Reviewed by: Glorimar Velazco (gvelazco) Uges

Date/Time Jun 23, 2009 09:34 GMT-04:00

06-23-09

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

CR-014 SOP No.300-002	MIC Control Number: 165			NAME: Waleska Diaz		1-G-00001			asolyx="solose"	Isolated occassionally from the skin of	humans and other higher primates It has	a looked from their model and	neer and revaled from men work work and	some environmental sources (e.g. soil, beach,	sand, natural waters). Rarely associated with	human infections,							0/5 /	Alilland .	D BY: Gloriner Velate. Micrebiologist	06-23-09 1 /1	1/1 VILLIN	D BY: Lizzethedw. Where, BSMT Lie, 2015	DATE: 06-28-09		
•	1	NOILY	A summer	CUSTOMER NAME:		INCOMENT IN MARKET			susoiv(X.	Isolateo	humans.	have ale	הכבוג מס	some en	sand, na	human in									PERFORMED BY:	-		REVIEWED BY:	-		
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ZUII	Industrial Laboratories Inc	MLCROBIAL ISOLATE CHARACTERIZATION	- Colomy No.	3. Elevation	Flet	Umbonate	Crateriform	Spreading	Reised to slightly convex	Canvex	Pulvinate	4. Surface	Smooth	Dull	Granular	Rough	Butyrous	5. Edge	Entire	Undulate	Lobate	Feathery	Filamentous	ALTER AND ADDRESS ADDRESS					and the second second	IDENTIFICATION METHOD: VITEK 2 Compact System	occus xylosus
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	P.L.C.		Colony No.	I. Type of Isolate	Bocteria		II. Gram Stain	Gram Positive	Gram Negative	Gram Variable	III. Arrangement	Cocci	Bacili	Coco-Bacilli	Single	Poirs	Tetrads	Owains	Clusters	Polisade	IV. Colony Marphology	1. A slight yellow tint		2. Form	Gircular	Irregular	Feathery	Punchiform	Rhizoid	IDENTIFICATION	IDENTIFIED AS: 98% STOPHYIOCOCCUS XYIOSUS

CLENDO INDUST	1.8.900	LADODAT	NODIDA
CLENDO INDOSI	POAL	LABORAT	OKIES

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 23, 2009 09:35 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10558-5-2

Bionumber: 040000201001231 Selected Organism: Kocuria kristinae

Brenth Books	site liter	_
Comments:	1/2 Juli 00 de-22	_
A STATE AND A STAT	1	_

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 19, 2009 22:02 GMT-04:00	Status:	Final	Analysis Time:	7.00 hours
Selected Organism	88% Probabi	ity	Kocuria kr	istinae)) 	
oblected organism	Bionumber:	040000201001231			Confidence:	Acceptable identification

Ala

Organism Analysis Organisms and Tests to Separate:

Analysis Messages:

Contraindicating Typical Biopattern(s)

Gulgo 042305 O129R(7),dRIB(15).LeuA(79),ProA(93),AlaA(99), Kocuria kristinae

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13	APPA	-	14	CDEX	-	15	AspA		16	BGAR	-	17	AMAN		19	PHOS	-
20	LeuA		23	ProA	-	24	BGURr	-	25	AGAL		26	PyrA	•	27	BOUR	-
28	AlaA		29	TypA	+	30	dSOR		31	URE	-	32	POLYB		37	dGAL	-
38	dRIB	+	39	LATK	-	42	LAC	-	44	NAG	-	45	dMAL	+	46	BACI	-
47	NOVO	-	50	NC8.5	-	52	dMAN		53	dMNE	+	54	MBdG	-	56	PUL	-
57	dRAF	-	58	0129R	+	59	SAL	+	60	SAC	+	62	dTRE	+	63	ADH28	-
64	OPTO	+															

Action Reviewed by:

Date/Time Jun 23, 2009 09:35 GMT-04:00

Comment

04-2309

11 VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Name (User ID)

g w

Giprimar Velazco (gvelazco)

w

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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DATE	pact	Feathery								SEVIEWED BY:	Uzzette Whiters, BSMT-LC. 2015
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	TDENTTFTED AS: 86% Kocumia kristinae	IDENTIFICATION METHOD	2	E	K	Compact					

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T	CLE			SOP No.300-027
	- Mutanal L	aboratories i		IM CONTROL NO. 20
		ATION OF A	NOLDS	
ISOLATE	NO: 10558-7-1	CUSTOMER: WA	CONTRACTOR OF CONTRACTOR	
		PIC EXAMINA		
SAMPLE	COLONY DESCRIPTION	MACROS	COPIC APPEA	RANCE
Тор	Color: White; surface Hard and developed a fine aerial mycelium	(-	$\frac{1}{2}$	
	Appearance: Wooly			
	COLOR: Cream	1	2	
Воттом	APPEARANCE: WAXY	\langle	\mathbb{C}	
		PIC EXAMINA CULTURE CHAMBER	TION	
	DESCRIPTION		*****	*****
BRANCHING W STRAIGHT, W OF SMALL OB	AVPHAE AND ABURDANTLY VITH FILAMENTS WHICH MAY BE AVY, OR SPIRALED. SHORT CHAINS LONG CONDIA ARE PRODUCED AT INTS ON DOME OF THE FILAMENTS.	A A		
IDENTIFI	CATION: STREPTOMYCES SOMAL	IENSIS	L'ASILI-SAL - J	
Filamento branched	us bacteria that resemble fungi i (commonly referred to as hyphae) ies are considered nonpathogenic ly other types of infections. cutt	n that they form fila). : contaminants. Other	r species can	cause mycetomas a
occasional		111111		
occasional PERFORME	BY: GLORIMAR VELAZCO	unger	DATE:	07-03-09

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 23, 2009 09:35 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10558-8-1

Bionumber: 5000000100200001 Selected Organism: Sphingomonas paucimobilis

	ala III.
	Allow Allow
Comments:	

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 19, 2009 21:03 GMT-04:00	Status: Erral 1		Analysis Time:	6.00 hours
Selected Organism	97% Probabi Bionumber:	By 5000000100200001	Sphingom	onas paucim	obilis Confidence:	Excellent identification
SRF Organisrit						
Analysis Organisms and T	fests to Separa	mia				
Analysis Messages:		- da	M	100	16-23-0	
Contraindicating Typical (Riopattern(s)			400	no-se	
Sphingomonas paucimobilis	PvtA(24)				-37	10

Bio	chemical	Det	ails														
2	APPA	+	3	ADO	-	4	PyrA	+	5	IARL	-	7	dCEL	1	9	BGAL	ŀ
10	H2S		11	BNAG	-	12	AGLTp	-	13	dGLU		14	GGT	-	15	OFF	下
17	BGLU		18	dMAL		19	dMAN	-	20	dMNE	-	21	BXYL	1	22	BAlap	1
23	Pro.A.	- 6	26	LIP	-	27	PLE	-	29	TyrA		31	URE	-	32	dSOR	
33	SAC		34	dTAG	-	35	dTRE	-	36	CIT	-	37	MNT	-	39	5KG	-
40	LATR		41	AGLU	+	42	SUCT	-	43	NAGA		44	AGAL	-	45	PHOS	-
46	GlyA		47	COC	-	48	LDC	-	53	IHISa	-	56	CMT		57	BGUR	1
58	0129R	-	59	GGAA	-	61	IMLTa	-	62	ELLM	+	64	ILATa	-	1		1

Jun 23, 2009 09:35 GMT-04:00

Date/Time

06-23-05

Action

Name (User ID) Reviewed by: Gioriman Velazco (gvelazco)

VITEK 2 Systems Version, 09:01 MIC Interpretation Guideline: AES Parameter Set Name.

Comment

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Soft Namber: 125 MICROBIAL ISOLATE CHARACTERIZATION ACROBIAL ISOLATE CHARACTERIZATION Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 2 Colorny No. 1 2 3 Colorny No. 1 Colorny No. 1 2 3 Colorny No. Colorny No. No. Colorny No. No.	MICROBIAL ISOLATE CHARACTERIZ MICROBIAL ISOLATE CHARACTERIZ MICROBIAL ISOLATE CHARACTERIZ MICROBIAL ISOLATE CHARACTERIZ X T 2 3 Elevention X T 2 3 Elevention X T 2 3 Elevention X T 2 3 Colony No. 1 2 3 Sereading Contention X T 2 3 Colony No. 1 2 3 Sereading Contention X T 2 4 Sereading X 2 5 Edites X 2 Contention X 2 6 Contention X 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		CR-014
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bioMerieux Customer: 06365 System #: Laboratory Report

Printed Jun 23, 2009 09:33 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10558-14-1

Bionumber: 000000100220001 Selected Organism: Sphingomonas paucimobilis

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Information	Completed:	Jun 19, 2009 20:03 GMT-04:00	Status:	Final	Analysis Time:	5.00 hours			
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Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco) Ro

Date/Time Jun 23, 2009 09:33 GMT-04:00 ひん - つろ ひ ら

VITEK 2 Systems, Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Comment

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bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jul 3, 2009 09:16 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-16-1 Last Updated: Jul 3, 2009 09:16 GMT-04:00 By: gvelazco Bionumber: 400446005071631 Selected Organism: Staphylococcus equorum

	ala III a
	14 Luclaw as
Comments:	m 07-03-09

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 19, 2009 23:03 GMT-04:00	Status:	Final	Analysis Time:	8.00 hours
Selected Organism	86% Probabil Bionumber:	ity 400448005071631	Staphyloco	occus equoru	m Confidence:	Low discrimination
SRF Organism						
Analysis Organisms and T	fests to Separa	ate:				
Aerococcus viridans	Pyrro.Ary.(99)	h.				
Staphylococcus equorum	Pymo.Ary.(1),					
Low Discrimination Organism						
Analysis Messages:						
Contraindicating Typical 8	Biopattern(s)					
	PHOS/1) dXY	L(1), dGAL(87), dMAL(8	87).			
Aerococcus viridans	CLIMPION (1) (MARCH					

Bio	chemica	I De	tails														
2	AMY	-	4	PIPLC		5	dXYL.	+	8	ADH1	-	9	BGAL		11	AGLU	
13	APPA		14	CDEX		15	AspA		16	BGAR		17	AMAN		19	PHOS	+
20	LeuA	-	23	ProA	-	24	BGURr	+	25	AGAL	-	26	PyrA	÷	27	BGUR	+
28	AlaA	-	29	TyrA	-	30	dSOR		31	URE		32	POLYB		37	dGAL	
38	dRIB	+	39	ILATK.		42	LAC	+	44	NAG		45	dMAL		46	BACI	-
47	NOVO	+	50	NC6.5	٠	52	dMAN	+	53	dMNE	+	54	MBdG	-	56	PUL	-
57	dRAF	-	58	O129R	+	59	SAL	+	60	SAC	+	62	dTRE	+	63	ADH2s	
64	OPTO	+															

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

bioMerieux Customer: 06365 System #: Laboratory Report

Printed Jul 3, 2009: 09:16 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Comment

Isolate Group: 10558-16-1

. . .

Last Updated: Jul 3, 2009 09:16 GMT-04:00

By: gvelazco

Bionumber: 400446005071831 Selected Organism: Staphylococcus equorum

Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco)

Date/Time Jul 3, 2009 09:16 GMT-04:00 07-03-05

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

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REVIEWED SY1 Lizzepe M. Bivera, BSMT		
REVIEWED BY1 LIZZEPE M. Rivers, BSMT DATE 07-09-09	rregular	1 1/11
REVIEWED BYI LIZZENE M. River, BSMT DATE 03-09		14/11.
DATE 07-03-09		
)

bioMerieux Customer: 06365 System #

Laboratory Report

Printed Jul 3, 2009 09:16 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-17-1 Last Updated: Jul 3, 2009 09:15 GMT-04:00 By: gvelazco Bionumber: 0024110340446631

Selected Organism: Bacillus mycoides

	nia guillano
Comments:	07-112-00
and the discretion of the	-0004

Identification	Card:	BCL	Lot Number:	239124110	Expires:	May 8, 2010 GMT-04:00	12:00
Information	Completed:	Jun 20, 2009 05:18 GMT-04:00	Status:	Final	Analysis Time:	14.25 hours	
	85% Probabi	lity	Bacillus m	ycoides			
Selected Organism	Bionumber:	0024110340446531			Confidence:	Acceptable identification	
SRF Organism							
Analysis Organisms and Te	ests to Separate						
Bacillus							
cereus/thuringiensis/mycoide	2						
5							
Bacillus cereus	RHIZOIDcol(1),TOX.CRYST.(0),MO	B(90),				
Bacillus mycoides	RHIZOIDcol(99),TOX.CRYST.(0),M0	OB(10),				
Bacillus thuringiensis	RHIZOIDcol(1),TOX.CRYST.(100),N	108(90),				
Analysis Messages:							
Contraindicating Typical Bi	iopattern(s)						
Bacillus cereus/thuringiensis/mycoide 8	AGLU(81),EL	LM(88),OLD(8),PheA(\$	98),TyrA(88)	,APPA(24),GI	yA(2).		

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

bioMerieux Customer: 05365 System #:

Laboratory Report

By: gvelazco

Printed Jul 3, 2009 09:16 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-17-1

Last Updated: Jul 3, 2009 09:15 GMT-04:00

Bionumber: 0024110340445631 Selected Organism: Bacillus mycoides

1	BXYL	-	3	LysA		4	AspA	·	5	LeuA	(\cdot)	7	PheA.	-	8	ProA	-
9	BGAL	-	10	PycA	+	11	AGAL	-	12	AlaA	(.)	13	TyrA	-	14	BNAG	+
15	APPA.	+	18	CDEX	-	19	dGAL		21	GLYG	+	22	INO	1	24	MdG	1
25	ELLM	-	26	MdX		27	AMAN	-	29	MTE	+	30	GlyA	+	31	dMAN	-
32	dMNE	-	34	dMLZ	-	36	NAG		37	PLE	-	39	IRHA	-	41	BGLU	(-)
43	BMAN	•	44	PHC		45	PVATE	+	46	AGLU	-	47	dTAG	-	48	dTRE	+
50	INU		53	dGLU	+	54	dRIB	+	56	PSCNa	+	58	NaCl 6.5%	+	59	KAN	+
60	OLD	+	61	ESC	+	62	ITZ	÷	63	POLYB_R	+						

Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco)

He apo

Date/Time Jul 3, 2009 09:15 GMT-04:00 07-03-05

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

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	ZUL	Ĺ	C	SOP No. 300-002
nput survey	ustrial Labor:	atories	Inc.	MLC Control Number: 169
	MICROBIAL ISOLATE CHARACTERIZATION	LATE CHAB	CTERIZATION	
Colony No. 1 2 3	Colony No.	-		
	3. Elevation	-		we: Waleska Diaz
Bacteria x		×		-
Fungi	Umbonate		ISOLATE NUMBER:	10258-17-1
II. Grom Stain	Crateriform			
Green Positive ×	Spreading	*		
Gram Negative	Raised			
Gram Variable	Convex			
III. Arrengement	Pulvinate		Resembles	Resembles a fundus: produces chracteristic
Cocci	4. Surface		I no piozida	rhizoid or hoiru-lookino adharant calaniae
Bacilli (spore-former) x	Moist/Blister		in province	the restore the schole and some set
Coco-Bacilli	Rupple	×	Vincent suc	which require cover the whole age autitude.
Single	Granular		Vegetative	Vegetative cells and spores are found in soil,
Pairs	Rough	×	not commor	not commonly considered part of normal flora.
Tetrads	Butyrous		Whenever	Whenever isolated from clinical specimens
Chains	5. Edge		the potenti	the potential to be a contaminant must be
Clusters	Entire		strongly considered	nsidered
Palisade	Ondulate			
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Irregular				(101)
Filamentous				Juli
Punctiform			REVIEWED BY	REVIEWED BY LINITETHE M. RIVERAL BSMT LIC 2015
Rhizoid x			CIAL	60=00=J0 - 5
IDENTIFICATION METHOD: VITEK 2 Compact System	Compact System			
IDENTIFIED AS: 85% BACILLUS MYCOIDES	MYCOIDES			

By: jayala

bioMerieux Customer: 06365 System #: Laboratory Report

Printed Jul 3, 2009 09:14 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-18-1

Last Updated: Jul 2, 2009 10:14 GMT-04:00

Bionumber: 0302101000000200 Selected Organism: Bacillus fusiformis

	Ala 110 a
ommente:	glulge DT
	01-03-09

Identification	Card:	BCL	Lot Number:	239124110	Expires:	May 8, 2010 12:00 GMT-04:00
Information	Completed:	Jul 2, 2009 05:47 GMT-04:00	Status:	Final	Analysis Time:	14.25 hours
Selected Organism	89% Probabi Bionumber:	Hy 0302101000000200	Bacillus fu	sifornis	Confidence:	Low discrimination
SRF Organism						
Analysis Organisms and Te	sts to Separate	r;				
Bacillus sphaericus/Bacillus fusiformis						
Bacillus sphaericus	NO3(10),GEI	ATIN(10), CellChains	(10).SPORA	NGEsw(90),		
Bacillus fusiformis	NO3(10),GEI	ATIN(90), CellChains	(90), SPORA	NGEsw(90),		
Bacillus simplex	NO3(90),GEI	ATIN(50), CellChains	(90).SPORA	NGEsw(10),		
Low Discrimination Organism						
Analysis Messages:						
Contraindicating Typical Bio	opattern(s)					
Bacillus spheericus/Bacillus fusiformis	NaCI 6.5%(1)),PVATE(78),PyrA(95),AlaA(93),			
Bacillus simplex	NaCI 6.5%(1)),AlaA(97),APPA(3),				

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic interpretation Guideline. AES Parameter Last Modified:

bioMerieux Customer: 06365 System #: Laboratory Report

By: jayala

Printed Jul 3, 2009 09:14 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-18-1

Last Updated: Jul 2, 2009 10:14 GMT-04:00

Bionumber: 0302101000000200

Selected Organism: Bacillus fuaiformis

Bio	chemic	al D	etai	ls													
1	BXYL	-	3	LysA	-	4	AspA	-	5	LeuA	+	7	PheA	+	8	ProA	-
9	BGAL	-	10	PyrA .	-	11	AGAL	-2	12	AlaA	-	13	TyrA	+	14	BNAG	-
15	APPA	+	18	CDEX		19	dGAL		21	GLYG	-	22	INO		24	MdG	
25	ELLM	+	26	MdX	-	27	AMAN		29	MTE		30	GlyA	+	31	dMAN	
32	dMNE	-	34	dMLZ		36	NAG	-	37	PLE	-	39	IRHA	-	41	BGLU	-
43	BMAN		44	PHC		45	PVATE.		46	AGLU	-	47	dTAG	-	48	dTRE	-
50	INU.	-	53	dGLU	-	54	dRIB		56	PSCNa		68	NaCI 6.5%	+	59	KAN	
60	OLD	-	61	ESC		62	TTZ	-	63	POLYB R	-						T

07-03-09

Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco) Mulger

Date/Time Jul 3, 2009 09:13 GMT-04:00

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

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REVIEWED BY: LATE OF 23-09
REVIEWED IN: UZEGATE M. STOOM
DATE_00*03-09
Rhizeld IDENTIFICATION METHOD: VITEK 2 Compact System
IDENTIFICATION METHOD: VITEK 2 Compact System

-		IDEN	TIFICAT	ION OF	NOLD	5
CONTROL N	lo. :	10558-18-2	CUSTOMER	WALESKA DÉAZ		
		MACI	ROSCOPIC	EXAMINA	TION	
SAMPLE		OLONY DESCRIPTIO		MACROSO	OPIC AP	PEARANCE
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Воттом				(1.)
	APP	ARANCE: SUEDE		1	~	/
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		MICE		EXAMINA	TION	
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BN CHAINS	_					
IDENTIFI	ATIC	N: <u>A</u> :	SPERGILLUS O	RIZAE		
Species of	Aspen	gillus are opportunis	static invoders th	at cause aroup of	diseases k	nown as Aspergillosis, Ar
widespread	in the	environment and a	re commonly foun	d s contaminants,		
PERFORME	b By:	GLOREMAR VEL	AZCO SUGG	2/	DATE:	06-29-09
REVIEWED	By:	LIZZETTE M. R	IVERA UK	V	DATE:	06-29-09
			1			

ISOLATE NO: 10558-18-3 CUSTOMER: WALESKA DIAZ MACROSCOPIC APPEARANCE COLORY DESCRIPTION MACROSCOPIC APPEARANCE Top COLOR: YELLOWISH GREEN WITH PINK EOGE APPEARANCE: COTTONY COLOR: CREAMY BROWN BOTTOM BOTTOM DESCRIPTION LONG CONIDIOPHORES BORNE FROM SURFACE HOPMAE, STIPES WITH UNCOLOURED, SMOOTH WALLS; OVOID WESTIGES, BEARING: CONIDIA BILIPSOIDAL IN	ISOLATE N			MOLDS	
MACROSCOPIC EXAMINATION SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top Color: Yellowish green with pink EDGE Color: Yellowish green with pink EDGE Color: Creamy Brown BOTTOM Color: Creamy Brown Color: Creamy Brown Appearance: waxy Color: Creamy Brown MICROSCOPIC EXAMINATION MICROSCOPIC EXAMINATION MICROSCOPIC EXAMINATION Color: Creamy Brown LONS CONIDIOPHORES BORNE FROM SURFACE HOPHAE, STIPES WITH UNCOLOURED, SMOOTH WALLS; OVOID WESICLES, BEARING CROWED METULAE AND PHILALIDES Color: Creamy Brown	ISOLATE N				
SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top COLOR: YELLOWISH GREEN WITH PINK EDGE Image: Color Image: Color Appearance: cottony Image: Color: Creamy BROWN Image: Color: Creamy BROWN Image: Color Bottom Color: CREAMY BROWN Image: Color: Creamy BROWN Image: Color: Creamy BROWN Image: Color: Creamy BROWN Appearance: WAXY Image: Color: Creamy BROWN Image: Color: Creamy BROWN Image: Color: Creamy BROWN Appearance: WAXY Image: Color: Creamy BROWN Image: Color:		and the second se		the second s	LAZ
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BOTTOM APPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION LONG CONIDIOPHORES BORNE FROM SURFACE HYPHAE, STIPES WITH UNCOLOURED, SMOOTH WALLS; OVOID VESICLES, BEARING CROWED NETULAE AND PHILALIDES		COLOR : CREAMY BROWN		\frown	
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THAINS.	STIPES WITH VESTILES, BE	H UNCOLOURED, SMOOTH WALLS; ARING CROWED METULAE AND PHI	OVOID IALIDES	10	
IDENTIFICATION: ASPERGILLUS AVENACEUS		ATION: ASPERGILLUS	AVENACEUS		
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Card: GN Lot Number: 241112040 Expires: Jan 7, 2010 12:00 GMT-04:00 ation Completed: Jun 19, 2009 23:01 Status: Final Analysis 8:00 hours ed Organism 89% Probability Sphingomonas paucimobilis 8:00 hours 8:00 hours ed Organism 89% Probability Sphingomonas paucimobilis 8:00 hours 8:00 hours a Organisms and Tests to Separate: Ma July July Good identification as Messagee: Ma July July Good identification Good identification monas dGLU(76),BGUR(1),dCEL(76),dMAL(76),PyrA(24), Good identification Good identification Good identification emical Details Hour - 4 PyrA + 5 JARI, - 7 dCEL 9 BGAL - 20 11 BNAG 12 AGLTp 13 dGLU 14 GGT 15 OFF - 20 18 MAL 19 MAN 20 MINE 21 BXYL	Syst	lerieux Custor em #:			5			Labora	itory	Re	port		Pri	nted Jun 2		Print	9:34 GMT-0 ed by: gvel rt Version: 3	azoo
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	Con Sph pau Bio 2	traindicating ingomonas cimobilis chemical (APPA	Тур	ails 3	dGLU(78		4	ICEL(76),dM	AL(7	6),Pyr	A(24),		7	dCEL.		9	-	
C - 34 dTAG - 35 dTRE - 36 CIT - 37 MNT - 39 5KG -	Con Sph pau Bio 2	traindicating ingomonas cimobilis	Тур	ails 3	ADO BNAG		4	PyrA AGLTp	AL(7	6),Pyr	A(24), ARL dGLU		7 14	dCEL GGT		9	OFF	
	Con Sph pau Bio 2 10	traindicating ingomonas cimobilis chemical (APPA H2S	Тур	ails 3 11 18	dGLU(76 ADO BNAG dMAL		4 12 19	PyrA AGLTp dMAN	AL(7	6),Pyr	A(24), ARL dGLU dMNE	-	7 14 21	dCEL GGT BXYL	· · · ·	9 15 22	OFF BAlap	
ATR - 41 AGLU (-) 42 SUCT - 43 NAGA - 44 AGAL - 45 PHDS -	Con Sph pau Bio 2 10 17 23	traindicating ingomonas cimobilis chemical I APPA H2S BGLU	Тур	ails 3 11 18 26	dGLU(76 ADO BNAG dMAL LIP		4 12 19 27	PyrA AGLTp dMAN PLE	AL(7	6), Pyr 5 13 20 29	A(24), IARI, dGLU dMNE TyrA	-	7 14 21 31	dCEL GGT BXYL URE		9 15 22 32	OFF BAlap dSOR	
a las lass las las las las las las las l	Con Sph pau Bio 2 10 17 23 33	traindicating ingomonas cimobilis chemical I APPA H2S BGLU ProA	Тур	ails 3 11 18 26 34	dGLU(78 ADO BNAG dMAL LIP dTAG),BGU	4 12 19 27 35	PyrA AGLTp dMAN PLE dTRE	AL(7	6), Pyr 5 13 20 29 36	A(24), IARI, dGLU dMNE TyrA CIT	-	7 14 21 31 37	dCEL GGT BXYL URE MNT		9 15 22 39	OFF BAlap dSOR 5KG	
μA - 47 ODC - 48 LDC - 53 HISa - 56 CMT - 57 BGUR +	Con Sph pau	traindicating ingomonas cimobilis chemical I APPA H2S BGLU ProA SAC	Тур	ails 3 11 18 26 34	dGLU(78 ADO BNAG dMAL LIP dTAG),BGU	4 12 19 27 35	PyrA AGLTp dMAN PLE dTRE	AL(7	6), Pyr 5 13 20 29 36	A(24), IARI, dGLU dMNE TyrA CIT	-	7 14 21 31 37	dCEL GGT BXYL URE MNT		9 15 22 39	OFF BAlap dSOR 5KG	- - - - - - - - -
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	Con Sph pau Bio 2 10 17 23 33 40 46	traindicating ingoronas cimobilis chemical I APPA H2S BGLU ProA SAC LATk	Тур	ails 3 11 18 26 34 41 47	ADO BNAG dMAL UP dTAG AGLU ODC),BGU	4 12 19 27 35 42 48	PyrA AGLTp dMAN PLE dTRE SUCT LDC	AL(7	6),Pyr 5 13 20 29 36 43 53	A(24), dGLU dMNE TyrA CIT NAGA HISa	-	7 14 21 31 37 44 56	dCEL BGT BXYL URE MNT AGAL CMT		9 15 22 32 39 45	OFF BAlap dSOR 5KG PHOS	
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29R - 59 GGAA - 61 IMLTa - 62 ELLM - 64 ILATa - Name (User ID) Date/Time Comment d by: Glorimar/Melazoo (gvelazco) Jun 23, 2009 09:34 GMT-04:00 Comment	Con Sph pau Bio 2 10 17 23 33 40 46 58 Action	traindicating ingomonas cimobilis chemical I APPA H2S BGLU ProA SAC LATk GlyA 0125R on iewed by:	Deta + - - - - - -	ails 3 11 18 26 34 41 47 59 60 (U	ADO BNAG dMAL UP dTAG AGUU ODC GGAA),BGU - - - - - -	4 12 19 27 35 42 48 61	PyrA AGLTP dMAN PLE dTRE SUCT LOC IMLTa Date/T Jun 23	+ - - - - -	6), Pyr 5 13 20 29 36 43 53 62 9 09	A(24), ARL dGLU dMNE TyrA CIT NAGA HISa ELLM	- - - - - - - - - - - - - - -	7 14 31 37 44 56 64	dCEL GGT BXYL URE MNT AGAL CMT ILAT8	- - - - - - - - - - - - - - - - - - -	9 15 22 32 39 45	OFF BAlap dSOR 5KG PHOS	- - - - - - - -
29R - 59 GGAA - 61 IMLTa - 62 ELLM - 64 ILATa - d by: Glorimar Velacco (gvelazco) Jun 23, 2009 09:34 GMT-04:00 Comment Comment Hugger Glorimar Velacco (gvelazco) Jun 23, 2009 09:34 GMT-04:00 Comment Comment Systems Version: 03.01 pretation Guideline: Therapeutic Interpretation Guideline: Therapeutic Interpretation Guideline:	Con Sph pau Bio 2 10 17 23 33 40 46 58 Acti Revi	traindicating ingomonas cimobilis inchemical I APPA H2S BGLU BGLU ProA SAC LATk GityA 0129R on iewed by:	Deta + - - - - - - - - - - - - - - - - - -	ails 3 11 18 26 34 41 47 59 we (U image	dGLU(78 ADO BNAG dMAL UP dTAG AGLU ODC GGAA seer ID) Velazco (Velazco (Velazco (),BGU - - - - - -	4 12 19 27 35 42 48 61	PyrA AGLTP dMAN PLE dTRE SUCT LOC IMLTa Date/T Jun 23	+ - - - - -	6), Pyr 5 13 20 29 36 43 53 62 9 09	A(24), ARL dGLU dMNE TyrA CIT NAGA HISa ELLM	- - - - - - - - - - - - - - - - - - -	7 14 21 31 37 44 56 64	dCEL GGT BXYL URE MNT AGAL CMT ILAT8	- - - - -	9 15 22 39 45 57	OFF BAlap dSOR 5KG PHOS BGUR	line:
ZSR - 59 GGAA - 61 IMLTa - 62 ELLM - 64 ILATa - Image: Comment display="1">Comment display="1" Systems Version: 03.01 -	Con Sph pau Bio 2 10 17 23 33 40 46 58 Revi	traindicating ingomonas cimobilis inchemical I APPA H2S BGLU BGLU ProA SAC LATk GityA 0129R on iewed by:	Deta + - - - - - - - - - - - - - - - - - -	ails 3 11 18 26 34 41 47 59 we (U image	dGLU(78 ADO BNAG dMAL UP dTAG AGLU ODC GGAA seer ID) Velazco (Velazco (Velazco (),BGU - - - - - -	4 12 19 27 35 42 48 61	PyrA AGLTP dMAN PLE dTRE SUCT LOC IMLTa Date/T Jun 23	+ - - - - -	6), Pyr 5 13 20 29 36 43 53 62 9 09	A(24), ARL dGLU dMNE TyrA CIT NAGA HISa ELLM	- - - - - - - - - - - - - - - - - - -	7 14 21 31 37 44 56 64	dCEL GGT BXYL URE MNT AGAL CMT ILAT8	- - - - -	9 15 22 39 45 57	OFF BAlap dSOR 5KG PHOS BGUR	line:

x x	CR-014	SOP No. 300-002	MIC Control Number: 154	MICROBIAL ISOLATE CHARACTERIZATION			Spreading ISOLATE NUMBER: 10558-19-1	Crateriform	Effuse		Convex × PAUCIMOBILLS'= INTENDED TO MEAN A FEW	Pulvinate CELLS MOTILE. PRODUCES A VELLOW PIGMENT	Surface (CAROTENDID: NOSTAXANTHIN): NOT	*	Rugose NITCHER SLICE ANT PART OF LA MAN	5	Contoured Contours mode of Inversion	Edge Edge	Entire × OR SOUVTIONS.	Undulate ORIGINALLY NAMED PSEUDOMONAS	Lebate Paristration ts		Filomentous 0/1/1. 0.		+ Perform	1286 DATE: 06-23-969	No Growth in M.A.C.	REVENUES SYT LIZZETTE M. RIVER, BSMT LIZZETS
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bioMerieux Customer: 06385 System #: Laboratory Report

Printed Jun 30, 2009 15:10 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-19-2 Last Updated: Jun 30, 2009 15:10 GMT-04:00 By: gvelazoo Bionumber: 061032300000000 Selected Organism: Micrococcus lylae

comments: 1/1 Altilge au 30.09

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 25, 2009 23:35 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
	95% Probabi	lity	Micrococc	us lylae		
Selected Organism	Bionumber:	061032300000000			Confidence:	Very good identification
SRF Organism	1					
Analysis Organisms and 1	Tests to Separ	ate:				
Micrococcus luteus / lylae						
Micrococcus luteus	YELLOW(95)).				
Micrococcus lylae	YELLOW(1),					
Analysis Messages:						
Contraindicating Typical 8	Biopattern(s)					
Micrococcus luteus / lytae	BGAL(1),					

Bio	chemica	l De	tails														
2	AMY	-	4	PIPLC	-	5	dXYL.	ŀ	8	ADH1	ŀ	9	BGAL	+	11	AGLU	+
13	APPA	+	14	CDEX	-	15	AspA		16	BGAR	-	17	AMAN		19	PHOS	-
20	LeuA	+	23	ProA	+	24	BGURr		25	AGAL		26	PyrA	+	27	BGUR	-
28	AlaA	+	29	TyrA	+	30	dSOR	-	31	URE	-	32	POLYB		37	dGAL	-
38	dRIB	-	39	ILATK	-	42	LAC	- 1	44	NAG	-	45	dMAL.		46	BACI	-
47	NOVO	-	50	NC6.5	- 1	52	dMAN	-	53	dMNE	-	54	MBdG		56	PUL	-
57	dRAF	-	58	O129R	-	59	SAL	-	60	SAC	-	62	dTRE	-	63	ADH2s	-
64	OPTO	-			Т						Т			Т			

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 30, 2009 15:10 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10558-19-2 Last Updated: Jun 30, 2009 15:10 GMT-04:00 By: gvelazco Bionumber: 061032300000000 Selected Organism: Micrococcus Iylae

Action

Name (User ID) Date/Time Comment Glorimar Velacco (gvelacco) Jun 30, 2009 15:10 GMT-04:00 Reviewed by:

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

Inclustrial Lationation MICROBIAL ISOLATE CHARACTERIZATION MICROBIAL ISOLATERIZATION MICROBIAL ISOLATERIZATION MICROBIAL ISOLATERIA CHARTERIA INTERNATION INTERCOLOLISE INTERNATION INTERCOLOLISE INTERNATION MICROBIAL ISOLATION MICROBIAL ISOLATION MICROBIAL ISOLATION MICROBIAL ISOLATION MICROBIAL ISOLATION MICROBIAL ISOLATION					7		1	1		
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x Bereading Micrococcus has is found in soil, dust, wat Resead x Resead x x Correnx x x 4. Surface and air, and as part of the normal flora of t mommalian and birds skin. The bacterium al convertence of the normal flora of the normal flora of the mommalian and birds skin. The bacterium al convertence of the normal flora of the mommalian mouth, muccos smooth x a surface the normal flora of the mommalian and birds skin. The bacterium al convertence of the normal flora of the mommalian mouth, muccos x b built x the normal flora of the mommalian mouth, muccos x b built x the normal flora of the mommalian mouth, muccos x b built the normal flora of the mommalian mouth, muccos x b built the normal flora of the mommalian mouth, muccos x b b the normal flora of the mommalian mouth, muccos x b frainty of infection including meningit x b tentral mervous system shurt, endocordit start c fraint tentral mervous system shurt, endocordit x c fraint tentral mervous system shurt, endocordit x fraint tentral mervous system shurt, endocordit x fraint tentral mervous	II. Gram Stain	0.000	3	11	Crateriform					
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	IDENTIFICATION METHO	ë	F	凿	2 Compact System					

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 23, 2009 09:34 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10558-22-1

Bionumber: 430046405373231 Selected Organism: Staphylococcus xylosus

Allety augor <u> 4</u> Comments:

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 19, 2009 21:03 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
Colored Oversion	94% Probabi	ity	Staphyloco	occus xylosu	\$	
Selected Organism	Bionumber:	430046405373231			Confidence:	Very good identification
SRF Organism		nla	011	,		
Analysis Organisms and 1	feats to Separ	ate:	2au	90		
Analysis Messages:				1	Ole-J.	2
Contraindicating Typical I	Biopattern(s)					¥
Staphylococcus xylosus	dSOR(19),UF	E (0/2)				-

Biochemical Details * 8 ADH1 - 16 BGAR 2 AMY 4 PIPLC 5 dXYL BGAL + 11 AGLU + 9 2 AMY 13 APPA 20 LeuA 28 AlaA 38 dRIB 47 NOVO 57 dRAF 15 AspA 24 BGURr 14 19 PHOS 27 BGUR CDEX 17 AMAN 23 ProA 29 TyrA + 25 AGAL 26 PyrA + ٠ - 37 dGAL 30 dSOR + 31 URE 32 POLYB + 39 ILATk + 50 NC6.5 - 58 O129R - 42 LAC + 52 dMAN + 59 SAL + 44 NAG + 53 dMNE + 45 dMAL + 54 MBdG + 46 BACI + 56 PUL + 63 ADH2s 60 SAC + 62 dTRE 64 OPTO +

Action

Name (User ID) Reviewed by: Glorimar Velazco (gvelazco) Ylulage L

Date/Time Jun 23, 2009 09:34 GMT-04:00 86-2305

Comment

VITEK 2 Systems Version: 03.01/ MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Colony No. 1 2 3 Bosteria x 1 2 3 Colony No. 1 2 3 Bosteria x 0 Unbonete 1 2 3 Contention Bosteria x 0 Unbonete 0 Unbonete 1 2 2 Groun Stain Contextiform Contextiform Contextiform 0 1 2 2 Groun Vegetive x 0 Unbonete Contextiform 2 2 2 Groun Vegetive x 0 0 0 0 2 2 2 Groun Vegetive x 0 0 0 0 2 2 2 Groun Vegetive x 0 0 0 0		TERIZATION TERIZATION Custowen Nawe: ALC Custowen Nawe: Custowen Nawe: C	ATION ATION ATION ATION Costrowen Nume: Waleska Diaz Costrowen Nume: Waleska Diaz Locutt nument: 10558-22-1 Locutt nument: 10558-22-1 Locutt nument: 10558-22-1 Locutt nument: 10558-22-1 Locutt nument: 10558-22-1 Locutt nument: 10558-22-1
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Punctiform		REVIEWED BY:	
Rhizoid		EMA	60-53-00
IDENTIFICATION METHOD: VITEK 2 Compact System			
IDENTIFIED AS: 94% Staphylococcus xylosus			

LABORATORY FAX 787-92	HANYMON PR 00960 H-8901 FDA No 1-7149 FDA No	. 30033383013	CLENDO CONTROL NO. 10559
LADUNATUNT Erek derd		PLE ANALYSIS REPORT	Page 1 of 2
A. CUSTOMER NAME		WALESKA	DIAZ
B. CLIENT NUMBER		0590	
C. ADDRESS		URB. VILLA VICTORIA (CAGUAS P.R. 00725
D. TELEPHONE	Contraction of the second	787-429-	6644
E. FAX	A REAL PROPERTY AND A REAL	N/A	CONTRACTOR OF THE OWNER
F. CONTACT PERSON		WALESKA	
G. DATE /TIME OF SAMPLE R		06-15-09/	
H. DATE / TIME OF SAMPLIN	G	06-15-09/	11:30
I. QUANTITY OF SAMPLES		12	
J. DESCRIPTION OF SAMPLE	The state successful to a second state successful to the second state of the second st	ENVIROS	
K. SAMPLES COLLECTOR NA		SAMUEL SE	
L. DATE/TIME ANALYSIS BE	GINS:	06-15-09/	13:00
M. RESULTS			
MANUAL OF ENVIRONME	NTAL MICROBIOLOGY" 2 rd ED	1110N 2002	
	ENVIROSWAL	BS SAMPLING	CONTRACTOR INCOME
SAMPLE	ENVIROSWAE BACTERIA (2 ¹⁶ DAY COUNT)	SS SAMPLING YEAST/MOLD (7 ^{TE} DAY COUNT)	IDENTIFICATION
SAMPLE 10559-1 BEAM A (BABY GYM)	BACTERIA	YEAST/MOLD	IDENTIFICATION 97% <u>Sphingormonas</u> paucimobilis Non Sporulating Fungi
10559-1	BACTERIA (2 ^{re} Day Count)	YEAST/MOLD (7 ^{T*} DAY COUNT)	97% <u>Sphingomonas</u> paucimobilis
10559-1 BEAM A (BABY GYM) 10559-2	BACTERIA (2 ¹⁰ DAY COUNT) 435 COLONIES/50cm ²	YEAST/MOLD (7 ^{1*} Day Count) 10 COLONIES/50cm ²	97% <u>Sphingomonas</u> paucimobilis Non Sporulating Fungi
10559-1 BEAM A (BABY GYM) 10559-2 BEAM B 10559-3	BACTERIA (2 ⁴⁶ DAY COUNT) 435 COLONIES/50cm ² 585 COLONIES/50cm ²	YEAST/MOLD (7 Th DAY COUNT) 10 COLONIES/50cm ² 10 COLONIES/50cm ²	97% <u>Sphingomonas</u> paucimobilis Non Sporulating Fungi <u>Curvularia geniculata</u>
10559-1 BEAM A (BABY GYM) 10559-2 BEAM B 10559-3 BAR A (BABY GYM) 10559-4	BACTERIA (2 ¹⁰ DAY COUNT) 435 COLONIES/50cm ² 585 COLONIES/50cm ² 220 COLONIES/50cm ²	YEAST/MOLD (7 ¹¹ DAY COUNT) 10 COLONIES/50cm ² 10 COLONIES/50cm ² 10 COLONIES/50cm ²	97% <u>Sphingormonas</u> paucimobilis Non Sporulating Fungi <u>Curvularia geniculata</u> Penicilium chrysogenus 92% Brevibacilius
10559-1 BEAM A (BABY GYM) 10559-2 BEAM B 10559-3 BAR A (BABY GYM) 10559-4 BAR B 10559-5	BACTERIA (2 ¹⁶ DAY COUNT) 435 COLONIES/50cm ² 585 COLONIES/50cm ² 220 COLONIES/50cm ² 20 COLONIES/50cm ²	YEAST/MOLD (7 ¹⁵ DAY COUNT) 10 COLONIES/50cm ² 10 COLONIES/50cm ² 10 COLONIES/50cm ³ 0 COLONIES/50cm ³	97% <u>Sphingomonas</u> paucimobilis Non Sporulating Fungi Curvularia geniculata Penicilium chrysogenut 92% Brevibacilius choshinensis

INDUSINIAL TEL 78742	9 BAYAMON PR 99999 9-9800 9-7149 FDA No 59-7149	. 30033383013	CLENDO CONTROL NO. 10559
Cite of		PLE ANALYSIS REPORT	Page 1 of 2
10559-8 VAULT B	100 COLONIES/50cm ²	0 COLONIES/50cm ²	NIA
10559-9 FOUNTAIN	TNTC COLONIES/50cm ²	0 COLONIES/50cm ²	NIA
10559-10 BG (CONFERENCE ROOM)	30 COLONIES/50cm ²	15 COLONIES/50cm ²	Acremonium alabamense Penicillium chrysogenum Tricophyton soudanense
10559-11 BG (ROSA OFFICE)	250 COLONIES/50cm ²	0 COLONIES/50cm ²	NIA
10559-12 NEGATIVE CONTROL	0 COLONIES/50cm ²	0 COLONIES/50cm ²	NIA
N. COMMENTS			- ALTERNATION OF THE
STUDY-1,000L FOR C SERIES OF SMALL HOLES AGAR SURFACE OF A EXAMINATION TO BE REMOVED AND INCUBA 50 CFU / M	VACE AIR SYSTEM (SAS) SUPE LEAN ROOMS/MINUTES) THROIS OF A SPECIAL DESIGN. THE R 'CONTACT PLATE' CONTAINING PERFORMED, WHEN THE PRES TED, THE ORGANISMS ARE THI FOR AN ASSESSMENT OF THI 'OR 1.42 CFU J FT' OF YEASTS IS CONSIDERED A SIGN RATORY PROBLEMS OR COMP	UGH A COVER WHICH HAVE ESULTING LAMINAR AIR FLI SIEDIUM CONSISTENT WIT SET SAMPLING CYCLE IS CC EN VISIBLE TO THE NAKED I LEVEL OF CONTAMINATIO (MOLDS OR MORE IN THE 1 FIICATIVE RISK FACTOR	BEEN MACHINED WITH A OW IS DEIRECTED ONTO TH H THE MICROBIOLOGICAL IMPLETED, THE PLATE IS EYE AND CAN BE COUNTED IN. ENVIRONMENT
PERFORMED BY: GLORINAR VELAZCO - LABORATO	RT AMALNET	Malax?	DATE 09-08-0

bioMerieux Customer: 06365 System #:	s Labora	tory Report	1	Printed Jun 23,	2009 09:35 GMT-04:00 Printed by: gvelazoz Report Version: 2 of
solate Group: 10559-1-1					
Bionumber: 5000021100240 Selected Organism: Sphinge					
Comments:	_Ala y	Way	Ole	Jan	
Constant of the second s				~	
Identification	Card: GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed: Jun 19, 2009 20:04 GMT-04:00	Status:	Final	Analysis Time:	5.00 hours
Selected Organism	97% Probability Bionumber: 500002110024000		onas paucim	obilis Confidence:	Excellent identification
SRF Organism					
Analysis Organisms and 1	fests to Separate: 11/9	Mi	6-		
Analysis Messages:		200	10 1	24-2-3	
Contraindicating Typical 6	Biopattern(s)			-	29

Bio	chemical	Det	ails														
2	APPA	+	3	ADO	-	4	PyrA	+	6	IARL.		7	dCEL		9	BGAL.	
10	H2S	-	11	BNAG	-	12	AGLTp		13	dGLU	-	14	GGT	-	15	OFF	-
17	BGLU.	-	18	dMAL	-	19	dMAN	-	20	dMNE		21	BXYL.	+	22	BAlap	
23	ProA.	+	26	UP	-	27	PLE		29	TyrA	+	31	URE	-	32	dSOR	
33	SAC	1	34	dTAG	-	35	dTRE		36	CIT		37	MNT		39	5KG	-
40	LATE	-	41	AGLU	+	42	SUCT	-	43	NAGA	-	44	AGAL	-	45	PHOS	+
46	GhoA	-	47	ODC	-	48	LDC		53	IHISa	-	55	CMT	-	57	BGUR	
58	0129R	-	59	GGAA	-	61	MLTa	-	62	ELLM	+	64	LATa	-			

Action

Name (User ID) Reviewed by: Glorimar Velazco (gvelazco) Ş Slip

Date/Time Jun 23, 2009 09:35 GMT-04:00 OU - 23-7 9

Comment

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 1 of 1

VITEK 2 Systems Versien: 03.01 MIC Interpretation Goldeline: AES Parameter Set Name:

	TERIZATION TERIZATION TERIZATION Control Number: 155 ALC Centrol Number: 155 Control Number: 155 C
2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	TERIZATION Control Number: 155 Control Number: 155 Control Number: 155 Control Number: 155 Control Number: Nation Nation Prauctacents*= Intended to Mean a Few Prauctacents*= Intended to Mean a Few Calories Nottle. Procouces a vel.Low Presment Calories Such as water. Not Part of HUMAN FLURA. MODE OF TRANSMITSTON NICHES, SUCH AS WATER. NOT PART OF HUMAN FLURA. MODE OF TRANSMITSTON NICHES, SUCH AS WATER. NOT PART OF HUMAN FLURA. MODE OF TRANSMITSTON
2 2 3 3 2 2 3 3 3 2 3 3 3 3 3 3 3 3 3 3	TERIZATION B Waleska Diaz 3 Gustowes NAME: Waleska Diaz 10559-1-1 IO559-1-1 Fouctacents*= INTENDED TO MEAN A FEW CasoTENDID: * INTENDED TO MEAN A FEW *PAUCTACGRILIS*= INTENDED TO MEAN A FEW CAROTENDID: NOT *PAUCTACORLIS*= INTENDED TO MEAN A FEW CAROTENDID: NOT *PUCRACENT. FOLORES A YELLOW PTSMENT *COROTENCID: NOSTAXANTHIN); NOT FUCRES, SUCH AS WATER. NOT PART OF HUMAN *CORA. MODE OF TRANSMISSION *UNCENTALY, MODE OF TRANSMISSION UNCENTALY, MODEAULY INVOLVES PATHENT
× ×	TERIZATION 3 Customes Nume: Waleska Diaz 10559-1-1 10559-1-1 10559-1-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 10559-1 1059-1 10559-1 1059-1 1059-1
1 2 3 Colory No. 1 × × 3 Flat 1 × × 5 5 5 × × 5 5 5 × × 5 5 5 × × 6 5 5 × × 6 5 5 × × 6 5 5 × × 6 5 5 × × 6 5 5 × × 6 6 5 × × 6 6 5 × × 6 6 5 × × 10 10 1	
3. Elevation 3. Elevation x 9. Elevation x 5preading x Crateriform x 8dreding x Nutworte x 8dreding x 9dreding	
x Flat x Spreading x Spreading x Efficate x Efficate x Stread x Stread x Efficate x Stread x Convext x Convext x Converted x Contoured	ISOLATE NUMBER: 10559-1-1 ISOLATE NUMBER: INTENDED TO MEAN A FEW CELLS MOTTLE. PRODUCES A VELLOW FISMENT CAROTENOID: NOSTAXANTHIN); NOT ELUDRESCENT. EXISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLOBA. MODE OF TRANSMISSION UNCENTALN, PROBABLY INVOLVES PATTENT
Spreading Spreading Conteriform Conteriform Conteriform Conteriform Spreading Conteriform Spreading Conteriform Spreading Spre	"PAUCIMOBILIS"= INTENDED TO MEAN A FEW "PAUCIMOBILIS"= INTENDED TO MEAN A FEW CELLS MOTTLE. PRODUCES A VELLOW PISMENT (CAROTENOID: NOSTAXANTHIDU); NOT ELUORESCENT. EXISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLORA. MODE OF TRANSMISSION UNCENTALN, PROBABLY INVOLVES PATTENT
Creteriform Creteriform Creteriform Content Contente Contente Contente Contente Contente S. Edge Contente Contente S. Edge Contente	"PAUCIMOBILIS"= INTENDED TO MEAN A FEW CELLS MOTHLE. PRODUCES A VELLOW PISMENT (CAROTENOID: NOSTAXANTHIN); NOT (CAROTENOID: NOSTAXANTHIN); NOT FLUORESOENT. EXCISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLORA. MODE OF TRANSMISSION UNCENTATN, PROBABLY INVOLVES PATTENT
x Effue x Reject x Connex Annoth Rajose x Smooth x Smooth x Concentric x Concentric x Concentric x Concentric x Controled x Contred	"PAUCIMOBILIS"= INTENDED TO MEAN A FEW CELLS MOTILE. PRODUCES A YELLOW PISMENT (CAROTENOID: NOSTAXANTHIN); NOT FLUORESCENT. EXCISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLORA. MODE OF TRANSMISSION UNCENTALN, MOBABLY INVOLVES PATTENT
x Releed x Cornex Aufvacte Cornex x Smoth x Smoth x Smoth x Concentric x Concentric x Signate x Concentric	"PAUCIMOBILIS"= INTENDED TO MEAN A FEW OELLS MOTHLE. PRODUCES A VELLOW PISMENT (CAROTENOTD: NOSTAXANTHIN); NOT (CAROTENOTD: NOSTAXANTHIN); NOT FLUORESCENT. EXCISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN PLOBA. MODE OF TRANSMISSION UNCERTAIN, PROBABLY INVOLVES PATTENT
Comex Comex x Pulvente x Surface x Badate x Concentric x Concentric	PARCHARGELS - INTENDED TO MEAN A TEW CELLS MOTTLE. PRODUCES A YELLOW FISMENT (CAROTENOTD: NOSTAXANTHIN), NOT FLUORESCENT. EXISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLOBA. MODE OF TRANSMISSION UNCERTALN, PROBABLY INVOLVES PATTENT
Advincte k Surface k Surface k Somoth Ragoon k Somoth k Surface k Somoth k Surface k Surfa	CELLS MOTTLE. PRODUCES A VELLOW FISMENT (CAROTENOID: NOSTAXANTHID); NOT FLUORESCENT. EXISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLOBA. MODE OF TRANSMISSION UNCERTALN, PROBABLY INVOLVES PATTENT
x 4. Surface x 5month x 5month x Contented x Lobate x Lobate	(CAROTENOID: NOSTAXANTHIN); NOT FLUORESOENT, EXCISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLORA, MODE OF TRANSMISSION UNCENTATIN, PROBABLY INVOLVES PATTENT
x Smooth x Sugose x Contentric x Contentric x Solately x Solately x Undulate x Lobate	FLUORESCENT. EXISTS IN ENVIRONMENTAL NICHES, SUCH AS WATER. NOT PART OF HUMAN FLORA. MODE OF TRANSMISSION UNCENTATIV, PROBABLY INVOLVES PATTENT
x Ragoes x Concentric x Concentric x Contrared x Si Edge Finite Undulate Lobate Lobate	NICHES, SUCH AS WATER. NOT PART OF HUMAN FLORA. MODE OF TRANSMISSION UNCERTAIN, PROBABLY INVOLVES PATIENT
x Concentric x Conteured x <td< td=""><td>FLORA, MODE OF TRANSMISSION UNCERTAIN, PROBABLY INVOLVES PATIENT</td></td<>	FLORA, MODE OF TRANSMISSION UNCERTAIN, PROBABLY INVOLVES PATIENT
x Contoured baddetely 5, Edge Entire Lobate Lobate	UNCERTAIN, PROBABLY INVOLVES PATIENT
5, Edge Entire Undulore Lobore	UNCERTAIN, PROBABLY INVOLVES PATIENT
5. Edge Entire Undulate Lobate	一日、日、日、二、日、日、二、二、二、二、二、二、二、二、二、二、二、二、二、二
Entire Undulate Lobate	EXPOSURE TO CONTAMINATED MEDICAL DEVICES
Athen Bot	OR SOLUTIONS.
BU	ORIGINALLY NAMED PSEUDOMONAS
Na	PALICIACENT 15
Filamentous	1/1 1
2. Form V. Biochemistry Reactions	
Circular × Catalase •	PERFORMED #7: 670rimar Velitico, Microbiologist
	DATE: 06-23-09
Filamentous No Growth in MAC	
Punctiferm	
Rhizeid	DATE: 06-23-09
IDENTIFICATION METHOD: VITEK 2 System	
trebutteten as. 07%. Subinoomonoo muicimohilie	
CULTURE OF ALL A CALIFORNIA CALIFORNIA CALIFORNIA	

- standal	IDENTIFI	CATION OF MOLDS	
CONTROL	No. : 10559-1-2	CUSTOMER: WALESKA DÍ	.~
SAMPLE	MACROSCO	PIC EXAMINATION	
Top	COLOR: WHITE)
	APPEARANCE: COTTONY		
	COLOR: CREAMY		<u> </u>
Воттом	DIAMETER: 2 CM	(7))
	APPEARANCE: WAXY		
			AL.
ONLY HYPH	IAE WAS OBSERVED!		-Witchins
	IAE WAS OBSERVED!	NG FUNGI"	
IDENTIF:	CATION: "NON-SPORULATIN	NG FUNGI"	
Identifi Perform	ED BY: GLORIMAR VELAZCO	Julie DATE: 0	9-08-09
Identifi Perform	CATION: "NON-SPORULATIN	Julie DATE: 0	9-08-09 9-08-09
Identif) Perform	ED BY: GLORIMAR VELAZCO	Julie DATE: 0	

1		NDO boratories Inc.	CR-073 SOP No.300-027 IM CONTROL NO. 20
	IDENTIFICA	TION OF MOLDS	
ISOLATE	No. 10559-2-1	CUSTOMER: WALESKA DÍ	AZ
SAMPLE	MACROSCOP	C EXAMINATION MACROSCOPIC APP	EARANCE
Тор	COLOR: charcoal gray	\bigcirc	
	APPEARANCE: WOOLY	(\mathbf{z})	
N. Carton	Color: black	6	************************
BOTTOM		()	
CONIDEA BOR	SLIDE C DESCRIPTION ES STARLE, RARELY BRANCHED. 16 FROM FORES IN SENECULATE HYPHAE,	C EXAMINATION	
CONIDEA BOR BLUFSOIDAL, ALONG ONE SI THE PENULTIN GENUS, WITH	MICROSCOPI SLIDE C DESCRIPTION ES STAPLE, BARELY BRANCHED. ES STAPLE, BARELY BRANCHED. ES STAPLE, BARELY BRANCHED. ES STAPLE, BARELY BRANCHED. DE SUT WITH BOTHNEC SWELLING OF ATE GELL CHARACTERISTIC OF THE WALLS BMOOTH, FALL TO MED BROWN. CELLS IN EACH CONEDUM OF A		
CONIDEA BOR BLIPSOIDAL, ALONG ONE SI THE PENALTIN GENUS, WITH AND WITH ALL SEVELAR COLO IDENTIFI	MICROSCOPI SLIDE C DESCRIPTION ES STAPLE, BARELY BRAND-ED. HE PROM PORES IN BENECULATE HYPPARE, WITH 3 SEPTA, ALROST STRATENHT DE RUT WITH BEELNTERC SWELLING OF WITH SEEL OWNACTHENISTIC OF THE WALLS SMOOTH, FAUE TO ALD BROWN, CELLS IN EACH CONEDUM OF A UR. CATTON: <u>CURVULARIA</u> <u>GENIC</u>	ULTURE CHAMBER	
CONIDEA BOR BLIFSODAL, ALONG ONE SE GENUS, WITH AND WITH ALL SEMELAR COLO IDENTIFI TELEMORPHS NUMEROUS SP FATHORENS OF CHEORIC, NON KOTED, SPOR	MICROSCOPIO SLIDE C DESCRIPTION ES STARLE, RARELY BRANCHED HE FROM FORES IN BENEGLATE HYPHAE, NETH 3 SEPTA, ARADIST STRATOHT DE NUT WITH BEENTRIC SWELLING OF ATTE GELL OMMENTERISTIC OF THE WALLS SWOOTH, FALLE TO ALD BROWN, CRUES IN FACH COMEDIUM OF A UR. CATION: CURVULARIA GENICO COCHLORICLUS, PREVEOROCHLORICUS (ASCOWACE ESTES ARE ENDWN, WOSTLY OCOLORIDUS (ASCOWACE ESTES ARE ENDWN ESTES ASCOWACE ESTES ARE ENDWN ESTES ASCOWACE ESTES ARE ENDWN ESTES ASCOWACE ESTES ARE ENDWN ESTES ASCOWACE ESTES ASC	ULTURE CHAMBER ULTURE CHAMBER ULTURE CHAMBER ULTURE CHAMBER TA EMASCONVETTES, PLEOSPORALES: PLU ANT MATEBUAL. THEY ARE PARTICULARLY DOI-NELY POLYAGE IN AN THEY ARE PARTICULARLY DOI-NELY POLYAGE IN AND AND AND CONTACT AND	CORNON AS SAFRORES OR WEA MANS, IN BOTH CASES CAUSEN TRAUMATER INFECTIONS AND

	IDENTIFICAT	ION OF MOLDS	
ISOLATE	NO. 10559-3-1	Customer: Waleska Dia	z
SAMPLE	MACROSCOPIC COLONY DESCRIPTION	EXAMINATION MACROSCOPIC	APPEARANCE
Тор	COLOR: VELITINOUS TO FLUCCOSE, EXUDING YELLOW PIGMENT IN TO THE MEDIUM.)
воттом	COLOR: YELLOW APPEARANCE: WAXY	(+)
PENICILI USU PHEALEDES FLA	The second s	E EXAMINATION TURE CHAMBER	C
IT IS A DRY-S SPECIES ARE C WIDESPREAD / ANENAL HEALT	CATION: PENICILIUM CHYSOGEN PORE PUNKE, THAT RECOMES ADBORNE BY MASCRE PUNKE IND ARUNDANT IN FOODS AND PEEDS THAT THEY MUS IN REMUSE MANY SPECIES MAKE SOVERAL COMPONED IN RECAUSE MANY SPECIES MAKE SOVERAL COMPONED WHICH IT'S FULCIONIES SUBMICIANCE IS OUNDERLAD.	TREE, SUCH AS AIR ACVENENTS OR RAIN ROPHYTES, COMMONLY CONSEDERED AS C T BE CONSEDERED TO BE A POTENTIAL HA	ONTAMONANTS. THEY ARE SU ZARD TO BOTH HUMAN AND
PERFORME	1/17	lary DATE:	07-03-09
and all of the last	BY: LCDA. LIZZETTE M. RIVERA	DATE:	07-03-09

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 23, 2009 09:35 GMT-04:00 Printed by: gvelazoo Report Version: 2 of 2

Isolate Group: 10559-4-1

Bionumber: 5727101004010080 Selected Organism: Brevibacillus choshinensis

Comments:	-	/	Ha Allulas a
			06-3309
Identification	Card:	BCI.	Lot 239124110 Expires: May 8, 2010 12:00

Identification				Number:			GMT-04:00
Information	Completed:	Jun 20, 2009 GMT-04:00	05:19	Status:	Final	Analysis Time:	14.25 hours
Selected Organism	92% Probabi	Ity		Brevibacille	as choshiner	nsis	
Selected Organism	Bionumber:	57271010040	10060			Confidence:	Good identification
SRF Organism			la	He. 1			
Analysis Organisms and T	ests to Separ	ate:	-	Aug	R D	1-220	
Analysis Messages:						~20	5

Contraindicating Typical Biopattern(s)

Brevibacillus choshinensis TTZ(12), BGLU(24), AGLU(12), BXYL(12), GlyA(76),

1	BXYL	+	3	LysA	-	4	АзрА	+	5	LeuA	+	7	PheA	+	8	ProA	
9	BGAL	-	10	PyrA	+	11	AGAL	-	12	AlaA	+	13	TypA	+	14	BNAG	+
15	APPA	+	18	CDEX	-	19	dGAL	-	21	GLYG	-	22	INO		24	MdG	-
25	ELLM	+	26	MdX.		27	AMAN	•	29	MTE		30	GlyA	-	31	dMAN	-
32	dMNE	-	34	dMLZ	-	36	NAG	-	37	PLE	-	39	IRHA	-	41	BGLU	
43	BMAN	-	44	PHC	-	45	PVATE	-	46	AGLU	+	47	dTAG	-	48	dTRE	ŀ
50	INU	-	53	dGLU	-	54	dRIB		56	PSCNa		58	NaCI 6.5%		59	KAN	ŀ
60	OLD	-	61	ESC	+	62	TTZ	+	63	POLYB_R	-						Т

Date/Time

Action Reviewed by:

Name (User ID) Giorinar Velazco (gvelazco) Jun 23, 2009 64 X

Comment Jun 23, 2009 09:35 GMT-04:00

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

	Щ.	1	-				
			12.2	industrial Laboratories		2	SOP No. 300-002
							MIC Control Number: 371
				MICROBIAL ISOLATE CHARACTERIZATION	ATE CHARACT	TERIZATION	
Cotomy No.	1	2 3	100	Colomy No.	1 2		
Type of Esolate		100		3. Elevation		CUSTOWER NAME:	E: Waleska Diaz
Bacteria	×	-		Flat			
Fungi				Umbonate		LEOLATE NUMBER:	a: 10559-4-1
Gran Stan	THE N	1000	100	Crateriform			
Gran Positive	×	-		Spreading		Γ	
Grom Negative				Raised			
Gram Variable				Convex	×	Its name me	Its name means short bacilli.
III. Arrangement	100	1.5.1		Pulwingte		Hos been iso	Has been isolated chiefly from soil and foods
Cocci	-	-	4	4. Surface		Witnessen is	Minumum indiated from allaled menimum
Bacilli (shart)	ĸ			Smooth: Shiny	×		reaction of the contraction operations,
Coco-Bacilli ; Small				and Slight Granular	×	The potentia	The potential for the isolate to be a
Diptheroid-like	×			Rugose		contaminant	contaminant must be strangly considered.
Spore forming	×	_		Rough			
Tetrads				Butyrous			
Chains			6	5. Edge		m	
Clusters				Entire	×		
Conyneform arrangement		_		Undulate			
IV. Colory Marphology	South and	diama la		Lobate			
1. Color Vellowish wory	**	_		Eross			011 1
				Filamentous			MI NEW
2. Form		+			and the source	PERFORMED'SY	PERFORMED'BY: Glorimer Velezeo, Microbiologian
Crowlar	×	-	-			DATE	06-23-09
Irregular		-					(1)
Filamentous						REVIEWED BY:	REVIEWED BY: LIZZETHEN, RIVER, BAMT LIC. 2015
Punctiform						DATE	-06-23-09
Rhizoid		_					
IDENTIFICATION METHOD: VITEK 2 Compact System	THODE	VITE	K 2 Co	impact System			
Thentreten as: 02% Beauthondline shaddineesis	Based	- Continue	- chack	Insertie			

-1	CLE	ENDO	CR-073 SOP No.300-027
3	Industrial	Laboratories Inc.	IM CONTROL NO. 20
			an estimotive ite. Est
San Weining	IDENTIFI	CATION OF MOL	DS
ISOLATE N	0.: 10559-6-1	CUSTOMER: WAL	ESKA DÍAZ
	MACROSCO	OPIC EXAMINATIO	D N
SAMPLE	COLONY DESCRIPTION	MACROSCOPE	C APPEARANCE
	COLOR: TURQUOISE IILUE WITH WIETE MARCIN	(
Тор		(~	-)
1.00	APPEARANCE:	(,	- /
	VILVILIY		
	COLOR: YELLOW		<
	DIAMETER: 2 ch	(
Воттом	DTAMETER: 2 CM	(-	(~)
1	APPEARANCE:	$\langle \rangle$	
	WAXY		
		OPIC EXAMINATIO) N
	DESCRIPTION	DE CULTURE CHAMBER	
	DESCRIPTION		n.
	ORES BORNE FROM AERIAL	Y	1 .
1	IPES WITH THIN SMOOTH WALLS,	6	6
	DIVERGENT METULAE. PHEALIDES	1 Contraction of the second se	2 -
	W, WITH SHORT COLLULA;	1.	
	HERICAL, SPINOSE, BORNE IN ORLY DEFINE COLUMNS.	the to	to the
		-1. J.	7 3
IDENTIFI	CATION: PENICILLIUM VERU	JCULOSUM	Contractor and the
	PUNRUS, PRESENT ONLY AS A CONTARIMANT		
COMMONLY CO	TO OR RAIN DROPS . MOST PENICULIUM S INSIDERED AS CONTARIDIANTS. THEY ARE S	O WIDESPREAD AND ABUNDANT IN FOOD	S AND FEEDS THAT THEY MUST BE
	O BE A POTENTIAL HAZARD TO BOTH HUMAN THEY HAVE BEEN FOUND IN IN A VARIETY (
the state of the second	D BY: GLOREMAR VELAZCO XUU	all solve and the local	TE: 06-29-09
REVIEWED	BY: LIZZETTE RIVERA	CILL DAT	TE: 06-29-09
		10	

ISOLATE N				
	0.: 10559-10-1	CUSTOMER:	WALESKA DÍA	AZ
SAMPLE		COSCOPIC EX		
Тор	COLONY DESCRIPTI	ION	MACROSCOPIC AP	PEARANCE
	COLOR: DEAL		())
	APPEARANCE: FLUCCOSE		\bigcirc	/
	COLOR: PALE		\sim	
Воттом			(_'_))
	APPEARANCE: WAXY		()	/
1153	MICR	OSCOPIC EX		
	DESCRIPTION	SLIDE CULTURE C	HAMBER	
MALE OCHRAAD CONTINUES OF PREALIDES SUI DISTINCT, THE CONTINUES IN SE	WING RAFIDLY, WHETE AT FIRST, B IDUS, FLUCCOSE TO POWDERY, IS STAIR, E., CHURGRICH, LATERAL, RLATE, HVALINE, SMOOTH-WALLET CREWED COLLATERARY AT THE ARE LWH REACE, GORVIDENAL, CLAVARE CATE AT THE BASE, HYALINE, SWOO), WTTH A X. TO	1.	TL BV
IDENTIFI	CATION: ACREMONIL			an weiter and the state
and all the set	IN INDOOR CONTAMINANT THAT P	THEIR DETECTION INDOORS IS	HOULD BE CONSTITUERED STONES	ICANT. ETICLOSIC AGENT OF
IT ES A COMM SLIMY SPORES AVICETOWAS, O	OPNEAL INFECTIONS, AND NAIL I	and I		
IT ES A COMM SLIMY SPORES AVICETOWAS, O	OPINEAL INFECTIONS, AND NAIL 1 OT KNOWN TO PRODUCE ANCOTOK	Ellepon.	DATE:	09-08-09

- Store A	IDENTIFICAT	ION OF MOLDS	
ISOLATE	NO. 10559-10-2	CUSTOMER: WALESKA DÍA	2
SAMPLE	MACROSCOPI COLONY DESCRIPTION	C EXAMINATION MACROSCOPIC A	IPPEARANCE
Тор	COLOR: VELUTINOUS TO PLUCCOSE, EXUDING YELLOW PIGMENT IN TO THE MEDIUM)
	APPEARANCE: VELVETY		
Воттом	COLOR: YELLOW APPEARANCE: WAXY	$\begin{pmatrix} 1 \\ \frac{\lambda}{r} \\ r \end{pmatrix}$)
PENDODULI USI. PERIALIDES PL			(
ET IS A DRY-S SPECIES ARE O WIDESPREAD A	CATION: PENICILIUM CHYSOGEN PROBE PUNET, THAT DECOMES ADDRIANE BY PASSIVE IN SONSEDENES TO BE UNBEQUITOUS, OVORTUNESTED SA MUS ADJUNEAU TO PODOS AND FEEDS THAT THEY MU TH DECAUSE ANY SPECIES ARE SEVERAL CONFOUND TH DECAUSE ANY SPECIES ARE SEVERAL CONFOUND	ORCE, SUCH AS AIR MOVEMENTS OR RAIN PROPHYTES, COMMONLY CONSIDERED AS CO ST BE CONSIDERED TO BE A POTENTIAL HA IS ENDININ TO BE TOXIC. THEY HAVE BEEN	NTAMINANTS. THEY ARE S TARD TO BOTH HUMAN AND
AND INCOMENTATION OF	ED BY: GLORIMAR VELAZCO	DATE:	09-08-09
PERFORME		1 11.	

	CLENDO	F	CR-073 SOP No.300-027
	Industrial Labo	ratory, Inc.	IM CONTROL NO. 3
	IDENTIFIC	ATION OF MOLDS	
ISOLATE NO.:	10559-10-3	CUSTOMER: WALESKA DÍAZ	
	MACROSCO	PIC EXAMINATION	
SAMPLE	COLONY DESCRIPTION	MACROSCOPIC AP	PEARANCE
Тор	OLOR: Apricot orange PPEARANCE: Slow-growing fluffy /velvety	(\cdot, \cdot)	
Воттом	DLOR: Yellow - brown PPEARANCE: wuxy)
		DIC EXAMINATION CULTURE CHAMBER	
TO FOLDED, SU THERE IS A BRC GROWTH. SURF PISMENT ARE C APRICOT-ORAN MICROSCOPICA REFLEXIVE OR F PYRIFORM MICH	SLOW-GROWING WITH A FLAT EDE-LIKE SURFACE. OFTEN NAD FRINGE OF SUBMERGED ACE MYCELIUM AND REVERSE HARACTERISTICALLY A DEEP GE IN COLOUR. LLY, THE HYPHAE OFTEN SHOW IGHT-ANGLE BRANCHING. HOCONIDIA MAY OCCASIONALLY D NUMEROUS IDIA ARE OFTEN FOUND IN S.	and a construction	
CHLAMYDOCOND	ION: TRICHOPHYTON	SOUDANENSE	
CHLAMYDOCOND OLDER CULTURE IDENTIFICAT TRECHOMYTON & INVADED HATRS : IS MAINLY IN AR	CUDAVENSE IS AN ANTHROPOPHELEC PUN	ABUS WHECH IS A PREQUENT CAUSE OF THE NOT FLUORESCE UNDER WOOD'S ULTRA- N EUROPE, BRAZIL AND U.S.A.	

Appendix 5. Air Sampling Analytical Report

(#10330, #10332)

INDUSTRIAL PO BOX 570 BAVAMON PR 00960 TEL 137-620-6606 LABORATORY DE Conditional Conditiona Conditiona Conditiona Conditiona Conditiona Conditiona Co

FDA No. 30033383013

CLENDO CONTROL NO. 10330

CUSTOMER SAMPLE ANALYSIS REPORT

Page 1 of 2

A. CUSTOMER NAME	WALESKA DIAZ
B. CLIENT NUMBER	0590
C. ADDRESS	URB. VILLA VICTORIA CAGUAS P.R. 00725
D. TELEPHONE	787-429-6644
E. Fax	N/A
F. CONTACT PERSON	WALESKA DIAZ
G. DATE /TIME OF SAMPLE RECEIPT	06-15-09 / 17:20
H. DATE / TIME OF SAMPLING	06-15-09 / 11:30
I. QUANTITY OF SAMPLES J. DESCRIPTION OF SAMPLES	24
J. DESCRIPTION OF SAMPLES	SAS-PLATES
K. SAMPLES COLLECTOR NAME	SAMUEL SERRAND
L. DATE/TIME ANALYSIS BEGINS:	06-15-09 / 18:00
M. RESULTS	

PROCEDURE PERFORMED AS PER:

SOP NO.100-023 PROCEDURE FOR ENVIRONMENTAL AIR SAMPLING USING SAS SUPER 100 SURFACE AIR SYSTEM

REFERENCES:

"MANUAL OF ENVIRONMENTAL MICROBIOLOGY" 2nd EDITION 2002

	SAS YEAST/MOLD AI			
SAMPLE	COUNT (Pr=Corrected Count)	CFU/m ³	CFU/M ³	IDENTIFICATION
10330-1	53	266	7.50	Curvularia brachyspora
109	CFU	CFU/M ³	CFU/FT ²	
10330-2	131	655	18.55	Curvularia clavata
34	CFU	CFU/M ³	CFUIFT ¹	
10330-3	186	930	26.34	N/A
100	CFU	CFUM ³	CFU/FT ³	
10330-4	274	1370	38.80	N/A
85	CFU	CFU/M ⁵	CFU/FT ³	
10330-5	TNTC	TNTC	TNTC	NIA
124	CFU	CFU/M ³	CFU/FT ³	
10330-6	257	1286	36.39	Penicillium chrysogenum
114	CFU	CFU/M ³	CFWFT ³	
10330-7	244	1220	34.55	NIA
127	CFU	CFU/M ³	CFL//FT ³	

INDUSTRIAL TEL 787-489-9900 IABORATORY FAX 707-669-7149 Email dendered@pric.nat

FDA No. 30033383013

CLENDO CONTROL NO. 10330

CUSTOMER SAMPLE ANALYSIS REPORT

10330-8	114	570	16.14	NA
29	CFU	CFUM ³	CFLIFT ³	
10330-9	118	500	16.71	NA
102	CFU	CFU/M ³	CFU/FT ³	
10330-10	98	490	13.88	N/A
43	CFU	CFWM ²	CFUIFT ³	
10330-11	72	360	10.19	Aspergillus niger
105	CFU	CFUM ³	CFWFT ⁰	
10330-12	83	415	11.75	N/A
26	CFU	CFU/M ³	CFU/FT ³	
10330-13	107	535	15.15	N/A
16	CFU	CFUIM ³	CFU/FT ³	
10330-14	73	365	10.34	NIA
52	CFU	CFUM ³	CFLWFT ⁰	
10330-15 90	77 CFU	385 CFLUM ³	10.90 CFU/FT ³	Aspergillus clavatus Aspergillus clavatus Curvularia senegatensis Cladosportum cladosporoide
10330-16	88	440	12.46	NIA
12	CFU	CFUM ⁰	CFU/FT ³	
10330-17	49	245	6.94	N/A
64	CFU	CFU/M ⁸	CFU/FT ³	
10330-18	95	475	13.45	Aspergillus avenaceus
88	CFU	CFU/M ³	CFWFT ³	
10330-19	87	438	12.32	N/A
14	CFU	CFU/M ⁸	CFUNFT ⁰	
10330-20	96	480	13.50	Penicillium citrinum
47	CFU	CFU/M ³	CFU/FT ³	
10330-21	67	335	9.49	NA
125	CFU	CFU/M ⁴	CFU/FT ⁹	

CLENDO INDUSTRIAL IABORATORY FO DOX:579 BAYWACK PR 00989 TR, 377-609 0000 IABORATORY FOA No. 30033383013 Erset devidend@prt.met CUSTOMER SAMPLE ANALYSIS REPORT

CLENDO CONTROL NO. 10330

10330-22	50	250	7.08	Phoma glomerata
37	CFU	CFU/M ³	CFU/FT ³	
10330-23	70	350	9.91	NA
132	CFU	CFUM ^a	CFWFT ³	
10330-24	43	215	6.09	Penicillium chrysogenum
68	CFU	CFUM ⁵	CFU#T ²	
10355	SAS BACTER	A AIR SAI	MPLING RE	SULTS
SAMPLE	TOTAL COUNT (Pr=Corrected Count)	CFU/m ³	CFU/R ³	IDENTIFICATION
10330-1	163	815	23.08	NIA
109	CFU	CFLVM ³	CFU/FT ³	
10330-2	70	350	9.91	NIA
34	CFU	CFUM ³	CFWFT ^a	
10330-3	139	695	19.68	99% <u>Pantoea</u> spp.
100	CFU	CFU/M ³	CFU/FT ³	
10330-4	134	670	18.97	NA
85	CFU	CFU/M ³	CFU/FT ^a	
10330-5	84	420	11.89	N/A.
124	CFU	CFUMA*	CFU/FT ³	
10330-6	181	905	25.62	N/A
114	CFU	CFU/M ³	CFW/FT ³	
10330-7	154	770	21.81	98% Pantoea spp.
127	CFU	CFU/M ³	CFU/FT ³	
10330-8	175	875	24.78	N/A
29	CFU	CFU/M ³	CFU/FT ³	
10330-9	95	475	13.45	95 % <u>Chryseobacterium indologene</u>
102	CFU	CFU/M ³	CFU/FT ³	
10330-10	92	460	13.03	N/A
43	CFU	CFU/M ³	CFLWFT ³	

INDUSTRIAL INDUST

CLENDO CONTROL NO. 10330

10330-11	30	150	4.25	N/A
105	CFU	CIFUM ^a	CFWFT ³	
10330-12	28	140	3.96	NA
26	CFU	CFUM ³	CFUVFT ³	
10330-13	52	260	7.36	N/A
16	CFU	CFUM ³	CFU/FT ^a	
10330-14 52	74 CFU	370 CFU/M ²	10.48 CFU/FT ³	89% Pseudomona oryzihabitans 92 % Kiebsielle pneumoniae ssp ozaenae
10330-15	132	660	18.69	NA
90	CFU	CFUIM ³	CFU/FT ³	
10330-16	119	595	16.85	N/A
12	CFU	CFUM	CIFLIFT ³	
10330-17	116	580	16.42	99 % Staphylococcus hominis
64	CFU	CFU/M ³	CFU/FT ³	
10330-18	73	365	10.34	NIA
88	CFU	CFUM ³	CFU/FT ³	
10330-19	33	165	4.67	NIA
14	CFU	CFU/M ³	CFU/FT ³	
10330-20	34	170	4.81	NIA
47	CFU	CFUM ³	CFU/FT ³	
10330-21	21	105	2.97	N/A.
125	CFU	CFUM ³	CFU/FT ^a	
10330-22	25	125	3.54	96% Sphingomonas paucimobili:
37	CIFU	CFU/M ³	CFU/FT ³	
10330-23	16	80	2.26	95% Bacillus megaterium
132	CFU	CFU/M ^a	CFU/FT ¹	
10330-24	12	60	1.70	98% Serratia odorifera
68	CFU	CFUM ³	CFU/FT ^a	
MENTS		COLUMN TWO IS NOT	NOUR PROPERTY	

CLENDO					
INDUSTRIAL LABORATORY	PO BOX 579 BAYAMON PR 0006 TEL 707-629 A0600 FAX 787-999-7140 Email: clendoixid/Betts.net	o FDA No. 300	33383013	CLENDO CONTI 10330	
	Cus	TOMER SAMPLE A	NALYSIS REPOR	т	
				Page 1	of 2
SERIES OF SAMU AGAR SURFA EXAMINATIO REMOVED AND	CFU/M ³ OR 1.42 CFU/F	INUTES) THROUGH A DESIGN. THE RESULT E" CONTAINING MED HEN THE PRESET SA NISMS ARE THEN VIS ISMENT OF THE LEVI T ³ OF YEASTS / MOLI DERED A SIGNIFICA	COVER WHICH HU TING LAMINAR AIR UM CONSISTENT ' MPLING CYCLE IS IBLE TO THE NAKE EL OF CONTAMINA' OS OR MORE IN TH TVE RISK FACTOR	WE BEEN MACHINES FLOW IS DERECTED WITH THE MICROBIO COMPLETED, THE PI TO EYE AND CAN BE TION.	WITH A ONTO THE OGICAL ATE IS
1.1	EROUS TO COUNT				
	LABORATORY AMALYST		Hulaw	DATE	09-08-09
REVIEWED BY: LIZZETTE M. RIVERA, II	LS MT - Laton tony Descen		Vilup	IUUI DATE	00.08.00

T		NDO	CR-073 SOP No.300-027 IM CONTROL NO. 19	
	IDENTIFIC	ATION OF MOLDS		
ISOLATE N	lo. 10330-1-1	CUSTOMER: WALESKA DI	AZ	
SAMPLE	MACROSCO COLONY DESCRIPTION	PIC EXAMINATION MACROSCOPIC AP	PEARANCE	
Тор	COLOR: Grayhish brown	$\begin{pmatrix} \cdot \\ \cdot \\ \cdot \end{pmatrix}$		
	COLOR: Brownish Black			
Воттом	APPEARANCE: waxy	6		
CONTEELA BORNE	S STAPLE, RARELY BRANCHED. FROM PORES IN GENECULATE HYPHAE, 13TH 3 SEPTA, ALNOST STRAIGHT	200	4	
ALONG ONE SID THE PENULTEMA GENUS, WITH W	E BUT WITH ECCENTRIC SWELLING OF TE CELL CHARACTERISTIC OF THE NALLS SMCOTH, FALL TO ALD BROWN, FELLS IN EACH CONTEGUM, OF A R.	- %	1	
ALONG ONE SID THE PENALTIWA GENUS, WITH W AND WITH ALL O SUMILAR COLOUR IDENTIFIC	TE CELL CHARACTERISTIC OF THE MALLS SMOOTH, FALE TO AED BROWN, CELLS DN EACH CONTESTING OF A R. ATEON: CURVULARIA BRAC		1	
ALONG ONE SID THE PENALITIAN GENUS, WITH W AND WITH ALL SIMILAR COLOUR IDENTIFIC TELEMORPHS: C NAMEROUS SPEC NUMEROUS SPEC NUMEROUS SPEC NOTED. SPECES	TË GËLL CHARACTERISTIC OF THE Alle Smooth, faqë to red brown, Cëlls en each conteguir of a R	NOTA, EUASCONNETES, PLEOSPORALES: PL PLANT MATERIAL. THEY ARE PARTICULARU ASJONALLY FOUND IN CATTLE, RAMELY IN H UTTH CEREBRAL ENVIOLMENT. IN ADDITION ING CRY MEATHER. ABLE TO GRAMMATE AT	COMMON AS SAPRONES ON WEAR MAINS, IN NOTH CASES CAUSENS 4. TRAUMATEC INFECTIONS ARE	
ALONG ONE SID THE PENALITIAN GENUS, WITH M AND WITH ALL G SIMILAR COLOUR IDENTIFIC. TELEMORPHS O NUMEROUS SPEC PATHODENS ON NOTES. SPORE REQUIREMENTS PERFORMED	TE CELL CHARACTERESTEC OF THE MALLS SMOOTH, FALE TO AED BROWN, RELIS DN EACH CONEDUM OF A R. ATTON: CURVULARIA BRACC DOLLOBOURS, PSEUDOCOCHLOBOURS (ASCONT TES ARE KNOWN, MOSTLY COLBRING ON DEAD GRASSES. SOME USIG.TTOUS SHETES ARE CO STELTEC, ALLREGE SHAVESTERS ON STATICALLY COOLD IN DAELY AIR SANRES DUR OF 0.89. NO BELIARE OF MYOTOKING PROD BY: LCDA. GLORIMAR VELAZ	COTA, BUASCONNETES, ALEOSADALES: A. PLANT MATERIAL. THEY ARE PARTEOLINGU ASIDNALLY FOUND IN CATTLE, RABELY DI H UTTH CEREBRAL ENVOLVEMENT, IN ADDITION ING CHY WEATHER. ABLE TO SERVIDIATE AT UCTION ARE ENVOLVE CO MURLING DATE:	COMMON AS SAPRONES ON WEAR MAINS, IN NOTH CASES CAUSENS 4. TRAUMATEC INFECTIONS ARE	
ALONG ONE SID THE FERALITIAN GERLIS, WITH W AND WITH ALL G SIMILAR COLOUR IDENTIFIC. TELEMORPHS: D NUMEROUS SPEC PATHOREMS ON HERONIC, NON- NOTED. SPORES REQUIREMENTS	TE CELL CHARACTERESTED OF THE MALES SWOOTH, FALE TO AED BROWN, CELLS DI EACH CONEDUM OF A R. ATTON: CURVULARIA BRAC DOLLOBOURS, PSEUDOCOCHLOBOURS (ASCONT TES ARE KNOWN, MOSTLY COLARING ON BEAD ERASSES. SOME URIQUITOUS SPIETEES ARE CO SPECIFIC, ALIBRES SINUSITIS, SOMETINES WE STWEICHLY COOLR IN DAELY AIR SANRES DURI OF 0.89. NO BELIARE OF MYOTOKING PROS BY: LCDA. GLORIMAR VELAZ	COTA, BUASCONNETES, ALEOSADALES: A. PLANT MATERIAL. THEY ARE PARTEOLINGU ASIDNALLY FOUND IN CATTLE, RABELY DI H UTTH CEREBRAL ENVOLVEMENT, IN ADDITION ING CHY WEATHER. ABLE TO SERVIDIATE AT UCTION ARE ENVOLVE CO MURLING DATE:	COMMON AS SAPROBES OR WEAR MANS, IN BOTH CASES CAUSENS 4, TRAUMATIC INFECTIONS ARE 25°C AT WATER ACTIVITY	

3			O Inc.	CR-073 SOP No.300-027 IM CONTROL NO. 19
	IDENTI	FICATION OF	MOLDS	
ISOLATE NO	.: 10330-2-1	OUSTOWER: W	ALESKA DÍAZ	
SAMPLE	MACRO COLONY DESCRIPTION	SCOPIC EXAMIN Macri	A T I O N OSCOPIC APPE	ARANCE
Тор	COLOR: GRAMME BROWS	(
воттом	COLOR: DUEK HENNEN		$(\overline{,}\cdot)$	*******
SOMETIMES SEN UP TO 150 ye U BROWN, SMOOTH DCCASIONALLY S	STRAIGHT OR FLEXUOSE, IOLATE, IRCWN, SMOOTH-WALLED, DNG 2.0-8.5 JAN WIDE: CONDIA «WALLED, STRAIGHT OR LEHT CUIVED, USUALLY CLAVATE, 3 ISH-BROWN, BASAL COLL FLATE.	-	200	P
IDENTIFIC/	TION: CURVULARIA	LAVATA		
PATHOSENS ON I CHRONEC, NON-J NOTED, SPOKES REQUIREMENTS (RELIDEOLUS, PSEUDOCORELIDEOLUS IES ARE ENDINE, MOSTLY OCOARDING RASSES. SOME URBULTOUS SPECTO PECTFIC, ALEREIT STUMITTES, SOME TWITCHLY OCCUR IN DAILY AIR SAMR IF 0. B9. NO RELIABLE OF WYCOTOKE	ON DEAD PLANT WATERIAL. THEY A ARE OCASSONALLY POUND IN CATTO TIMES WITH CEREBRAL INVOLVEMENT ISS DURING CRY WEATHER ARE W	RE PARTICULARLY CO LE, RARELY IN HURA	MINON AS SAPROBES OR WEAK INS, IN ROTH CASES CAUSING TRAUMATIC INFECTIONS ARE "I AT WATER ACTIVITY
REVIEWED		THE AD	DATE:	06-27-09
REATEMED	BY: LIZZETTE M. RIVERA	Lun	DATE:	06-27-09
	-			

ALL.			CR-073 SOP No.300-027 IM CONTROL NO. 19
	IDENTIFICAT	TION OF MOLDS	
ISOLATI	NO. 10330-6-1	CUSTOMER: WALESKA D	AZ
SAMPLE	MACROSCOPI COLONY DESCRIPTION	C EXAMINATION MACROSCOPIC	APPEARANCE
Тор	COLOR: VELUTINOUS TO FLUCCOSE, EXUDING VELLOW PROMENT IN TO THE MEDIUM	(E)
	APPEARANCE: VELVETY		
Воттом	COLOR: YELLOW APPEARANCE: WAXY	(C)	-)
PENDCOLI USU PHUALIDES FLA		EXAMINATION	L
IT IS A DRY-S SPECIES ARE CO WIDESPREAD A ANIMAL HEALT	CATION: PENICILLIUM CHYSOGEN NOIE FUNKE, THAT BECOMES ADMOINE BY PASSIVE FO INSIDERED TO BE UNREQUITORS, OF DITINISTICS AND NO ABUNDANT IN FOODS AND FEEDS THAT THEY MAS IN REGAUSE MANY SPECIES AND SEVERAL CONCOUND AND ITS FITTOLOGIC STIMUTICANCE IS UNCERTAIN.	ACE, SUCH AS ADE ROVENENTS OR RAD	ONTANINANTS. THEY ARE SO
PERFORME	1/2	Prio DATE:	06-27-09
REVIEWED	BY: LCDA, LIZZETTE M. RIVERA	DATE:	06-27-09

Тэр Сан Арр Сан	10330-11-1	CUSTOWER:	WALESKA DÍA	
SAMPLE (Top COL App COL	MACRO OLONY DESCRIPTION OR: BLACK	SCOPIC EXA	MINATION	
Тор Соц Арр Соц	OLONY DESCRIPTION		CONTRACTOR AND A CONTRACTOR OF A CONTRACT	ARANCE
Тор Арр Соц			\frown	
Contraction of the local division of the loc			(-12)	
BOTTOM	DR: BROWNESHBLACK		$(-, \cdot)$	
SMOOTH WALLS; TI BROWNISH NEW THE V RUDDEE AND TROP (PHYALIDES) ON ITS E DOUBLE SERIES; THE PI AND LARGEST THAN	TARLARE IN SIZE WITH THIS BY ARE ITTHER HIVALDRE IN SCALE, THE VESTILE IS TARLAN. VARES BROWNESH STERICOMM NITHE SURFACE THAT SEVELOP I URBER IS DOCASIONALLY SEPTIC HIRE SECONDARY HIVALINE TH LATE, GLOBOSE CONEDIA. NI: ASPERGILL	CR LS TA IN TE		
A SPEARILLOSTS, SOIL, RESERVOIR FOR THESE I CATEGORISED AS "RENI TO PRODUCE OCHRATOX A NUMBER AS PRAVEND "S	The local division in	GNLY FOUND AS CONTAMINAN IN-DAMASED MATERIALS, OR O AS A BINGON FUNSIAS, AND HA E U.S. BOVERNMENT, HOMEYE NOY FOR RESEARCH ON CANCER IN AND ANDRAL CRETINGENE	REANDC-RICH SUBSTRATES I NS BEEN WIDELY USED IN FO R RECENTLY TWO OF 19 A M R CLASSIFIES AFLATORIN, A	IN BAULDONGS MAY BE A OD PROCESSING. IT IS INTER SOLATES WERE REPORTED
PERFORMED BY:		The way	DATE:	06-27-09
REVISED BY:	Lizzette Rivera	Value	DATE:	06-27-09

MACENO DECOMINATION MACENO SCOPIC EXAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE COLOR: BLUBHGREEN APPEARANCE: HARE, MAD RESTOR MACROSCOPIC APPEARANCE COLOR: BLUBHGREEN APPEARANCE: HARE, MAD COLOR: PREVENTION COLOR: PREVENTION MICROSCOPIC EXAMINATION SLIDE CLUTURE CHAMSER DESCRIPTION CONDIDIAL MEADS RADIATE, LATER SPLETTING ENTO EXERTION SLIDE TABLES INFORMATE, SMOOTH- WALLED AND SLIDENTLY ROUMENED BECOM THE	MACROSCOPIC EXAMINATION SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE COLOR: BLUBHCREEN APPEARANCE: HAVE, ME COLOR: PALE YELLOW BOTTOM APPEARANCE: WAXX MICROSCOPIC EXAMINATION SLIDE COLUTE CHAMSER	MARCENO DESCRIPTION MARCENOSCOPIC EXAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top APPEARANCE: MACROSCOPIC APPEARANCE COLOR: BUDBICARED Image and	Procession and the second				_		
SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top APPEARANCE: HLARE, AND MEDSE, VELLETY Image: And APPEARANCE: HLARE, AND MEDSE, VELLETY Image: And APPEARANCE: HLARE, AND MICROSCOPIC EXAMINATION BOTTOM APPEARANCE: WAXY Image: And APPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION SLIDE CULTURE CHAMBER DESCRIPTION Image: And APPEARANCE ISING FROM SUBMIRGED INFRAME, SMOOTH- KALED AND SLIDENTLY ROUGHERED RECOMUTE Image: And APPEARANCE	SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top COLOR: BLUBHGREEN C.C. APPEARANCE: HAVE, AND USME, VENELTY COLOR: DESCRIPTION BOTTOM COLOR: PREVELOW APPEARANCE: WAXY C.C. MICROSCOPIC EXAMINATION BOTTOM C.C. BOTTOM COLOR: PREVELOW BOTTOM C.C. BOTTOM C.C. BOTTOM MICROSCOPIC EXAMINATION CONDIAL HEADS RADIATE, LATER SPIETTING INTO SUIDE CALTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPIETTING INTO SUIDE CALTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPIETTING INTO SUIDE CALTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPIETTING INTO SUIDE CALTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPIETTING INTO SUIDE ON THE UPPERMONS CELLS UNITERIATE, SMOOTH- WAILED BUT SUISMINGED HOTHER, SMOOTH- WAILED RUT SUISMING CONTHERED THE UPPERMONS CELLS UNITERIATE, BOTHE ON THE UPPERMONS FART OF THE VESICE	SAMPLE COLONY DESCRIPTION MACROSCOPIC APPEARANCE Top COLOR: BLOBHGREEN Image: Color: BLOBHGREEN Image: Color:	ISOLATE N	10. 10.	and the second se	and the second se		WALESKA DÍAZ	
Top COLOR: BRUBHCREEN APPEARANCE: HANG, NOT REVEL, VELLETY COLOR: PREVEILOW COLOR: PREVEILOW APPEARANCE: WAXY APPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLETTING INTO REVENAL COLUMNS. CONDICIONCES STEPS RESING FROM SUBMIRED INFORMES INFORMATION CONIDIAL HEADS RADIATE, LATER SPLETTING INTO REVENAL COLUMNS. CONDICIONCES STEPS RESING FROM SUBMIRED INFORMES INFORMATION CONIDIAL HEADS RADIATE, LATER SPLETTING INTO REVENAL COLUMNS. CONDICIONCES STEPS	TOP COLOR: BLUEBHOREEN APFEARANCE: MANE, MAP COLOR: BLUEBHOREEN MIN: VELNETY COLOR: PREVELLOW BOTTOM COLOR: PREVELLOW AFFEARANCE: WAXX COLOR: COL	Top COLOR: BRUSHGREEN AFFEARANCE: HAVE, WED COLOR: AFFEARANCE: HAVE, WED COLOR: BOTTOW COLOR: PALE VELLOW BOTTOW COLOR: WASY MICROSCOPIC EXAMINATION COLOR: AFFEARANCE: WASY COLOR: MICROSCOPIC EXAMINATION COLOR: DESCRIPTION COLOR: CONDICATIONS CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNS, CONDICIONED STEPS COLOR: CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNS, CONDICIONED STEPS COLOR: CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNS, CONDICIONED STEPS COLOR: CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNE, CONDICIONED STEPS COLOR: CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNE, CONDICIONED STEPS COLOR: CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNE, CONDICIONED STEPS COLOR: CONDIAL HEADS RADIATE, LATER SHITTING INTO EXTRA COLUMNER CONSTRANT OF THE VESICLE N.Y. COLOR: CONTRO OF THE WERWOST PART OF THE VESICLE N.Y. CONTROLOR: COLOR: CONTROLOR HEADS RADIATIONS COLOR: COLOR: COLOR: CONTROL THE WERWOST PART OF THE VESICLE N.Y. CONTROL THE VERICACIONS COLOR: COLOR:	SAMPLE	COLO				ALL DE LESS COLORADORS	ARANICE
TOP APPEARANCE: HAVE, WAY MENSE; VELVETY COLOR: PREEVELOW COLOR: PREEVELOW APPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLETTING INTO EXTENSING FROM SUBMIRAGED INFORME, SMOOTH- WALLD BUT SLIGHTLY ROUMENED BECOM THE	TOP APPEARANCE: HAVE, MUP HENN: VELKETY COLOR: PRE YELLOW COLOR: PRE YELLOW APPEARANCE: WAXY APPEARANCE: WAXY MICR OSCOPIC EXAMINATION SLIDE COLUTIVE CHAMSER DESCRIPTION CONDULAL MEADS HARDATE, LATER STUTYS DWTO SETTRAL COLUMNS, CONDENDED WITHER, GROOTH- WALLED BUT SLISHTLY ROUGHENDER BEJOW THE WESTLE. CONDUCTOREFINATION STUTYS FART OF THE VESICE	Top APPEARANCE: H.W.E. WID Market, Velue TY APPEARANCE: H.W.E. WID BOTTOM COLOR: PRE VELIOW BOTTOM APPEARANCE: WANY MIC R O S C O PIC EX A MIN ATION SLIDE CULTURE CHAMBER DESCRIPTION CONDITIONERS SUBMISSED INFORME, SINCOTH- RUSHA COLUMNS. CONDITIONERS STREET CONDITIONERS SUBMISSED INFORME, SINCOTH- RUSHA COLUMNS. CONDITIONERS STREET CONNECT HE UMPERMOST PART OF THE VESICE NAV. DENTIFICATION: ASPERGILLUS CLAVATUS		COLOR:	BLOBICARY				
AFPEARANCE: WAXY COLOR: PREVELOW AFPEARANCE: WAXY MICROSCOPICEXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLITTING INTO EXTENS FROM SUBMIRAGED HAPHAE, SMOOTH- WALLD BUT SLIGHTLY ROUMENED BECOM THE	COLOR: PALE VELLOW BOTTOM APPEARANCE: WAXX MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCREPTION CONDUCT	APPER VELVELTY COLOR: PRE YELLOW BOTTOM APPEARANCE: WAXY MICE O S C O P I C E X A M I N A T I O N SLIDE CULTURE CHAMBER DESCRIPTION CONTIDUAL HEADS RADIATE, LATER SPLITTING INTO EVERAL COLUMNS. CONDICHED STORS RISING FROM SUBMIRGED HYPHE, SMOOTH- MALLED BUT SLIDENTURE END THE EVERAL COLUMNSS CONTINENTS RISING FROM SUBMIRGED HYPHE, SMOOTH- MALLED BUT SLIDENTIFY DENTIFICATION: ASPERGILLUS CLAVATUS	Тор		or contraction			(-, (-)	
COLOR: PRE HELOW BOTTOM AFPEARANCE: WARY MICROSCOPIC EXAMINATION SLIDE CLUTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPLETTING INTO EXTENS FROM SUBMIRED INFORMES SINOTH- WALLD BUT SLIGHTLY ROUMENED BECOM THE	COLOR: ME VELOW AFPEARANCE: WAXY AFPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CALTURE CHAMBER DESCRIPTION CONDUAL HEADS BARLATE, LATER SHITTING INTO SUBC CALTURE CHAMBER ARISING FROM SUBMERED HOPME, SMOOTH- WALLE CONDUCTOREFNOIS CELLS UNLEREATE, BOTHE ON THE UPFERMOST PART OF THE VESICE	COLOR: PREYELLOW BOTTOM AFFEARANCE: WAIV MICROSCOPIC EXAMINATION SLIDE CUTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPLITTING INTO EVENAL COLUMNS. CONDICIONED STURS RESING FROM SUBMIRED HITHAG, SMOOTH- ALLED BUT SLIGHTLY ROUGHERED REJOW THE ESTALE. CONEDIDISFINUS CELLS UNISERIATE, SUBJECTIVE UNIVERSITY PART OF THE VESILE N.Y. DENTIFICATION: ASPERGILLUS CLAVATUS	Party and the			40		\smile	
AFPEARANCE: WAXY AFPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLITTING INTO EXTENS FROM SUBMIRGED HYPELES, SMOOTH- WALLD BUT SLIGHTLY ROUMERED BEGOW THE	BOTTON AFFEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CALTURE CHAMBER DESCRIPTION CONIDIAL HEADS BADLATE, LATER SPLETTING ENTO SEVERAL, COLUMNS, CONDICHMENT STRESS AFISING FROM SUBMIREDE INFORMER, SMOOTH- WALLED EXTENDED OF THE USE ON THE WALLED EXTENDED OF THE USE ON THE BORNE ON THE UFFERMOST PART OF THE VESICE	AFPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONTIDUAL HER SPLITTING INTO EVERAL COLUMNS. CONDICIONES STIRTS RESING FROM SUBMIRACE INVENCE, SMOOTH- RALED BUT SLISHTLY ROUMERED BUJOW THE ESCLE. CONTROLOGENOUS CELLS UNISERIATE, OSNE ON THE UMMERMOST PART OF THE VESICLE NLY. DENTIFICATION: ASPERGILLUS CLAVATUS	minim						
AFPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLITTING INTO EXTENSING FROM SUBWIRGED HAVINGE, SWOOTH- WALLD BALT SLIGHTLY ROUMENED BECOM THE	APPEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMSER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLITTING ENTO SEVERAL COLUMNS, CONDICIONHORE STURES APICING FROM SUMMIRED HYPHAE, SMOOTH- WALLED ANT SLISHTLY ROUGHERD RE, OW THE VENICLE. CONTRELOGENOUS CELLS UNDERSTATE, BORNE ON THE UPFERMOST FART OF THE VESICLE	AFFEARANCE: WAXY MICROSCOPIC EXAMINATION SLIDE CULTURE CHAMBER DESCRIPTION CONTIDUAL HEADS RADIATE, LATTE SPLITTING INTO EVERAL COLUMNS. CONDICHED STORS RESING FROM SUBMIRED HYPLAE, SMOOTH- MALLED BAT SLISHTLY ROUGHENED BELOW THE ESCLE. CONTIDECEMONS COLING STORE OF THE VESICLE NLY. DENTIFICATION: ASPERGILLUS CLAVATUS	and the	COLOR:	PALE VELLOW				
MICROSCOPIC EXAMINATION SLIDE CLUTURE CHAMBER DESCRIPTION CONDIAL HEADS RADIATE, LATER SPLETTING INTO EXTERAL COLUMNS, CONDUCTIONE STIPES INTSING FROM SUBMIRED INVALE, SMOOTH- WALLD BUT SLIGHTLY ROUMENED DECOUT THE	MICROSCOPIC EXAMINATION SLIDE CALTURE CHAMBER DESCRIPTION CONTOIAL HEADS HADLATE, LATER SPLITTING DNTO SEVERAL COLUMNS, CONDUCTION RECOVERS ARCSING FROM SUBMIRED INFINE, SMOOTH- WALLED BUT SLISHTLY ROUGHERD HER OW THE VENICLE. CONTINUE CELLS UNDERSTATE, BORNE ON THE UPPERMOST PART OF THE VESILLE	MICROSCOPIC EXAMINATION SLIDE CUTURE CHAMBER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLITTING DATO EVERAL COLUMNS. CONDICIONERS STAPPS INTENSIFICATIONS CONDUCTIONE DATO SUBJECT ON THE UMPERWOOST PART OF THE VESICLE NLY. DENTIFICATION: ASPERGILLUS CLAVATUS	Воттом	-				(
SLIDE CULTURE CHAMSER DESCRIPTION CONIDIAL HEADS RADIATE, LATER SPLETTING INTO EXTERAL COLUMNS, CONDUCTION STIPPS INTSING FROM SUBMIRED INFINE, SMOOTH- WALLD BUT SLIGHTLY ROUGHERED DERLOW THE	CONTENT AL HEADS RADIATE, LATER SPLETTEDAS ENTO SEVERAL COLUMNS. CONTECEMENTES ARESING FROM SUMMERED INFOME, SMOOTH- WALLED BUT SLESHTLY ROUBIERED RELOW THE VESICLE. CONTENTOR FROM OF THE VESICLE	DESCRIPTION CONIDIAL HEADS BADIATE, LATER SELECTIONS ENTO EVERAL COLUMNS. CONDICIONERS STREPS ISING FROM SUMMERSED NOTHER, SMOOTH- MALLED BUT SUSHERY POUSFENED BELOW THE ESTICLE. CONEDICIOFENUS CELLS UNESEDATE, ONE ON THE UMMERWOST PART OF THE VESICLE NLY. DENTIFICATION: ASPERGILLUS CLAVATUS		APPEAR	INCE: WAXY			\sim	
ORNE ON THE UPPERMOST PART OF THE VESICLE		Hor chorde og danvartos	WALLED BUT : VESULE. COP	SLESHTLY RO	USHENED RELOW	THE ATE,	0	06	-
DENTIFICATION: ASPERGILLUS CLAVATUS	IDENTIFICATION: ASPERGILLUS CLAVATUS						the second	and the second se	1000
pecies of Aspergillus are opportunistatic invaders that cause aroun of diseases known as Aspergillus	Species of Aspergillus are opportunistatic invaders that cause group of diseases known as Aspergillasis, widespread in the environment and are commonly found a contaminants.	pecies of Aspergillus are opportunistatic invaders that cause group of diseases known as Aspergillosis. An	CNLY.	CATION:		SPERGILLUS	CLAVATUS		
	modely data in the environment and are commonly tound's contaminants.	seeps cas in the environment and are commonly touris contaminants.	ONLY. IDENTIFI Species of	Aspergilk	us are opportu	niststic invaders	that cause and	up of diseases kno	um as Aspergillosis. Ar
			CHLY. IDENTIFI Species of widespread	Aspergill I in the en	us are opportu vironment and	niststic invaders are commonly fo	that cause and	ants.	
Augur Date: 00-20-03	PERFORMED BY: GLOSSMAR VELAZIO MUTAN DATE: 06-28-09	ERFORMED BY: SLOREMAR VELAZCO SULLARY DATE: 06-28-09	DENTIFI Species of widespread	Aspergill I in the en D BY:	us are opportu vironment and GLORGMAR VEI	niststic invaders are commonly to azeo JUU	that cause and	DATE:	06-28-09
FREORMED BY: SOSTAND VELICIO SULLA			CHLY. IDENTIFI Species of	Aspergilk	us are opportu	niststic invaders	that cause and	up of diseases kno ants.	uun as Aspergillosis, Ar
DATE: 06-28-05			DENTIFI Species of widespread	Aspergill I in the en	us are opportu vironment and	niststic invaders are commonly fo	that cause and	ants.	
DATE: 00-28-03	PERFORMED BY: GLOSEMAR VELAZCO MULTAN DATE: 06-28-09	ERFORMED BY: GLOREMAR VELAZCO MULTUY DATE: 06-28-09	CHLY. IDENTIFI Species of widespread PERFORME	Aspergill I in the en D BY:	us are opportu vironment and GLORGMAR VEI	niststic invaders are commonly to azeo JUU	that cause and	ants.	

		100	IN LALA	CATAO	NOF	MOLDS	
ISOLATE N	0, 10	330-15-2	of the local division in which the local division is not the local divis	STOMER:	And in case of the local division of the	ALESKA DÍAZ	
SAMPLE	Cou	M A		OPIC E		TION	ARANCE
Тор	COLOR	BUIRS GREEN			(-1-)	
	APPEAR, DENSE; VI	ANCE: PLANE, A LARTY	ND		`		
	COLOR	PALE VELLOW			~		
Воттож	APPEAR	ANCE: WARP			(-0	
SEVERAL COLL	WINS. CON	TE, LATER SPLETTE	s				
SEVERAL COLU ARTISTNO PROF WALLED BUT 3 VESTICLE, CON	INNS. CON II SURMERSI SLIGHTLY RO IIDEOGENO		S TH- THE ATE,		2	0	L
SEVERAL COLU ARISSING PROF WALLED BUT 3 VESTICLE, CON BORNE ON TH	INNS. CON II SURMERS SLIGHTLY RO II DEOGENO E UPPERINGS	IDJOPHORE STERE ED HYPHAE, SMOO 2000-ENED BELOW US CELLS UNITSER IT PART OF THE VE	S TH- THE ATE, SICLE	LUS GLAVA		2	
SEVERAL COLU ARTISTNO FROM WALLED BUT IS VESTICLE. COM BORNE ON TH ONLY. IDENTIFIC Species of	ANNS, CON II SURMERS SLEGHTLY RE SLEGHTLY RE SLEGHTLY SLEGHTL	IDSOPHORE STERE ED HYPHAE, SMOO DURIENED BELOW US CELLS UNISER IT PART OF THE VE	s TH- THE ATE, STOLE ASPERGILL	aders that co	use group of	diseases kno	own as Aspergillosis. An
SEVERAL COLU ARTISTNO FROM WALLED BUT IS VESTICLE. COM BORNE ON TH ONLY. IDENTIFIC Species of	ANNS. CON IN SURMERSE SLEGHTLY RO SUPERINGS CATION: Aspengill in the en	IDSOPHORE STORE ED HYPHAE, SMOO DURHENED RELOW US CELLS UNISERS IT PART OF THE VE	s TH- TH- ATE, STOLE ASPERGILI miststic invo d ore common	aders that co	use group of	Local Contractor of the	wm as Aspergillosis. An 06-28-09
SEVERAL COLU ARTISTNO FROM WALLED BUT IS VESTOLE. CON BORNE ON THE ONLY. IDENTIFIC Species of widespread	ANNS. CON IN SURMERSE SLEGHTLY RO SUPERINGS CATION: Aspengill in the en	IDJOPHORE STORE ED HVMHAE, SMOO DUDAIEND BELOW US CELLS UNESHOD US CELLS UNESHOD US CELLS UNESHOD US CELLS UNESHOD US CELLS UNESHOD US CELLS UNESHOD	s TH- THE ATE, STALE ASPERGILL niststic invo d are common d are common	aders that co	use group of	diseases kno Date: Date:	

- All	C)		ND	Dinc.	CR-073 SOP No.300-027 IM CONTROL NO. 18
DV-1		IDENTIFIC.	ATION OF	MOLDS	
ISOLATE	No. 10330-	15-3	CUSTOMER: W	ALESKA DÍA	
SAMPLE	COLONY	MACROSCOP DESCRIPTION	IC EXAMIN	COLUMN STATEMENT	
Тор		NDES OF GRAY	(
Воттом	COLOR: BR	OWNESH BLACK	(
STRADOHT OR I WALLED, UP TO CONDEA SNOT		ESH, SROOTH-	9	K	
IDENTIFIC TELENORIES	CATION: C	URVULARIA SENEG	OTA, EUASCONVETES, PUR	CERCEALES: DEC	
NUMEROUS SPO PATHOGENS ON CHRONEC, NON NOTED. SPORE REQUEREMENTS	ECTES ARE KNOWN I GRASSES. SOME I-SPECIFIC, ALLER ES TYPICALLY OCCU I OF 0.89, NO RE	. MOSTLY OCCURRENG ON DEAD I UBDQUITOUS SPECIES ARE OCA GIC SINUSITIS, SOMETIMES WI IR IN DAILY AIR SAMPLES DURID BLIABLE OF MYCOTOKINS PRODUC	PLANT BATERLAL. THEY AR SECONALLY POLNED IN CATTLE TH GEREBRAL INVOLVEMENT AS CRY WEATHER. ABLE TO CTION ARE KNOWN.	E PARTIOLARLY C 5. RARELY IN HUM 1. IN ADDITION, GERMINATE AT 25	DMMON AS SAPROBES OR WEAR ANS, IN BOTH CASES CAUSING TRAUMATEC INFECTIONS ARE INC AT WATER ACTIVITY
- Indiana and Indiana			- A 1840- DV1	DATE:	
PERFORME	D BY: LCD	A, GLORIMAR VELAZO A, LIZZETTE M, RIVE	• Alle of	DATE: DATE:	06-29-09 06-29-09

			1 10 41	LON OI	MOLDS	
CONTROL N	lo. : 10330	0-15-4		OUSTOWER:	WALESKA DÍAZ	
SAMPLE	0	MACRO OLONY DESCRIPTI		EXAMI	NATION MACROSCOPIC	APPEARANCE
Тор	Color:	OUVACEOUS GREEN			$(\underline{-},\underline{\cdot})$	
	APPEARA	NCE: VELVETV			\smile	
Воттом	COLOR:	BLACK			(
12 200	APPEARAP	ACET WAXY			(\mathbb{C})	
PACKED, WITH AGROPETALLY? MATURITY, AN WALLED, FALE SMOOTH WALL	STIPES BEARIN ROBUCED CELL D SEPARATING DLIVE BROWN, ED: SMALLER C	TTEC (TREE-LIKE), SLOBELY 46 BRANCHENG STRUCTURE 5, ALL FUNCTIONENG AS (0 INULIQUED BROWNT, CONIT LARGER ONDER NO RS (IN NRES NONSEPTATE, BLUPS NOTH TO FINELY BOUGHNE	S OF ONEDIA AT DIA PEAVY IGLY SEPTATE, DEDAL TO			And
IDENTIFI	ATION:	CLADOSPORIUM	CLADOSPO	ROIDES		States Action
TERFERATURE.	AND LOW RELA OR TED DOWN TRATURE IS NE DISULATION,	TIVE HUMIDUTY. IT'S SACK TO O 86a, AT 25°C AND DO AR 32°C. ARE CONSIDERED MAINTED SURFACES, WALL	ES BECOME AIRSO 2000 TO-5°C. IT I 5 SECCONDARY CO FAVER, HOUSE DU	IRNE RY PASSIVE I S RELATIVELY RES LONEZERS IN A Y ST, AND A VERY W	ORCE, SUCH AS AIR WON ESTANT TO ALLOROWAVE FIDE VARIETY OF BUILD THE WARTETY OF FOODS.	PN ASSOCIATED WITH HUBH REMENT OR BAIN DROPS, GROW HEATING, THE MAXIMUM INS BATERIALS, FURNESHING, INCLUDING WHEAT AND FLOU OWN TO PRODUCE ANCONTON
CEILING TUES	Contraction of the second s	GLOREWAR VELAZOO	Gliple	P.	DATE:	06-29-09
CEILING TUES	D BA:	Statement of the second statem				

	IDENTIFICA			
ISOLATE	NO: 10330-18-1	CUSTOMER:	WALESKA D	IAZ
SAMPLE	M A C R O S C O P I C COLONY DESCRIPTION	ACCREMENTATION AND ADDRESS OF	ATION ACROSCOPIC A	PPEARANCE
Тор	COLOR: YELLOWISH GREEN WITH PINK		(\cdot)	
	APPEARANCE: COTTONY		\bigcirc	
	COLOR : CREAMY BROWN		(
Воттом	APPEARANCE: WAXY		(5)	
VESTCLES,	TH UNCOLOURED, SMOOTH WALLS; OVOID BEARING CROWED METULAE AND PHIALIDES ITIRE SURFACE; CONIDIA ELLIPSOIDAL IN	1		1
No. of Concession, Name	CATION: ASPERGILLUS AVEN	ACEUS		
IDENTIFI	ASPERGILLUS ARE OPPORTUNISTIC INVAD			
SPECIES OF	DSIS. ARE WIDESPREAD IN THE ENVIRONMEN	a real and sheet a section of		
SPECIES OF	DSLS. ARE WIDESPREAD IN THE ENVIRONMEN	Julo	DATE:	06-29-09

12		END	O Inc.	CR-073 SOP No. 300-027 IM CONTROL NO. 20
(holds)	IDENTIFI	CATION OF	MOLDS	
ISOLATE N	IO.: 10330-20-1	CUSTOMER: W	ALESKA DÍAZ	
SAMPLE	MACROSC COLONY DESCRIPTION	OPIC EXAMIN	ATION ROSCOPIC APPE	ARANCE
Тор	COLOR: White greyish orange with exudade green center Appearance: COTTONY		\bigcirc	
Воттом	COLOR: YELLOW		$\overline{\bigcirc}$)
		OPIC EXAMIN		
	DESCRIPTION			- 4
HAVE SECONDA THE NETULAE,/ SHAPED PHEALS SMOOTH, NOUT FORMS THE CH	E WITH BRANCHED CONECTORHORES THAT RY BRANCHES INNOWN AS WETULAE. ON HERANGED IN WHORKS, ARE FLASK- DES THAT EREL UNBRANCHES CHAINS OF A AS COMIDIA. THE ENTIRE STRATURE REACTERISTIC PENDELLUS" OR "BRUSH" EVENTICELLATED.		il a	
IDENTIFIC	ATION: PENICILLIUM	CITRINUM		
SPECIES ARE OF WIDESPREAD AN ANIMAL HEALT	ORE PUNKS, THAT BECOMES ADBRORNE BY INSEDERED TO BE UNBIQUETOUS, CPORTUM NO ABUNDANT IN FOODS AND FEEDS THAT H BECAUSE MANY SPECIES MAKE SEVERAL MECH ITS ETICLOSIC BRUNFICANCE IS UN	ESTEC SAPROMOTES, COMMONE THEY MUST BE CONSIDERED TO COMPOUNDS KNOWN TO BE TOK	LY CONSIDERED AS CO RE A POTENTIAL HAD	NTARINANTS. THEY ARE SO CARD TO BOTH HUMAN AND
THE R. P. LEWIS CO., LANSING MICH.	D BY: GLOREMAR VELAZCO	licker	DATE	06-29-09
PERFORME		1.101	and in case of the local division of the	

-	ECLE	aboratories	$\mathbf{\mathcal{S}}$	SOP No.300-027
		aboratories l	nc.	IM CONTROL NO. 1
	IDENTIFIC	ATION OF	NOLD	S
ISOLATE I	No. 10330-22-1	CUSTOMER: W	ALESKA	DÍAZ
SAMPLE	MACROSCO COLONY DESCRIPTION	PIC EXAMINA Mag	********	C APPEARANCE
	COLOR: MAUVE			
Тор	APPEARANCE: WOOLY)
	COLOR: REDDISH-BROWN			~
Воттом	DIAMETER: 3 CM		Ch	.)
	APPEARANCE: WAXY		~	
6LOBOSE PRIJIT (=OSTIOLE) co DUE TO DECTYO CHLAWYDOSPOR IAWERSED IN LESS GLOBOSE. ELLIPBOIDAL, S LIDHT-GLIVACE	SLEDE DESCRIPTION NUM WITH ARJANATEWONIDIA (FLASKSHAPED TO ROM, USUMLY WITH ONE ATCAL CONNING MTANIONE CONTROL OF CILLS), BLACE COUCE (FLASWODSPORE (A NUMDER TO LOUGH SHATTICELLE) II) PRODUCTION, PRONDER SUBSTITUTIES IN OR ANN, USUALLY WITH ORE OF STROLE, MORE OR CONDIA ONE-CELLED, MORTULES, DESPORES TH BRANCHED OF UNBRANCHED CHAINS	1	e dura	
	ATION: PHOMA GLOMERATA			
RICE GRAIN,	E DISTRIBUTION: ISOLATED FROM A WE CEMENT, LITTER, PAINT, PAPER AND WOO INDS OF FRUIT, E.G. AS THE CAUSE OF TO	OL. THE FUNGUS CAN BE I	ID PLAINT N PATHOGEN	MATERIAL, FROM SOIL, BUTTER IEC TO HUMANS AND ATTACK
the set of	D BY: GLORIMAR VELAZCO	was.	DATE:	07-03-09
REVIEWED	BY: LIZZETTE M. RIVERA	Veli	DATE:	07-03-09
	L	/		

Sur 18	IDENTIFICAT	TION OF MOLDS	
ISOLATE	NO. 10330-24-1	CUSTOMER: WALESKA DIA	λz
SAMPLE	MACROSCOPI COLONY DESCRIPTION	C EXAMINATION MACROSCOPIC	APPEARANCE
Төр	COLOR: VELUTINOUS TO FLUCCOSE, EXUDING VELLOW PIGMENT IN TO THE MEDIUM	C.S.)
	APPEARANCE: VELVETY		
Воттом	COLOR: YELLOW	G)
PENDEDULT USU PHEALEDES PLA		C EXAMINATION	n. 6
and the second second	CATION: PENICILLIUM CHYSOGEN		
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	BY: LCDA, LIZZETTE M. RIVERA	DATE:	06-27-09

bioMerieux Customer: 06385 System #

Laboratory Report

Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10330-3-1 Bionumber: 4401510051500010 Selected Organism: Pantoea spp

Autopo 014 -06-25 Comments:

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:54 GMT-04:00	Status:		Analysis Time:	6.00 hours
	99% Probabi	Ity	Pantoea s	00		

Selected Organism Bionumber: 4401510051500010 Confidence: Excellent identification

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Action Reviewed by:

ar Velazoo (gvelazoo) Gloria isto 12

Name (User ID)

Date/Time Jun 25, 2009 15:38 GMT-04:00 24-25-29

Comment

VITEK 2 Systems Version: 03,01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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IDENTIFICATION METHOD: VITEK 2 COMPACT SYSTEM IDENTIFIED AS: 99% Pantoeg spp.	IDENTIFICATION METHOD: VITEK 2 COMPACT SYSTEM IDENTIFIED AS: 99% Pantoeg spp.	IDENTIFIED AS: 99% Pantoea spp.			•	

bioMerieux Customer: 05365 System #:

Laboratory Report

Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: gvalazoo Report Version: 2 of 2

Isolate Group: 10330-7-1

Bionumber: 4607410151540210 Selected Organism: Pantoea spp

Mulgo aussog 11/9 Comments

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:54 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
Selected Organism	96% Probabi	lity	Pantoea s	рр		

4607410151540210 Confidence: Excellent identification

SRF Organism Analysis Organisms and Tests to Separate:

Org	anism		-														
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10	H2S		11	BNAG	-	12	AGLTp	-	13	dGLU		14	GGT	+	15	OFF	+
17	BGLU		18	dMAL.	-	19	dMAN		20	dMNE	+	21	BXYL	-	22	BAlap	-
23	ProA		26	Lip		27	PLE	-	29	TyrA	+	31	URE	-	32	dSOR	-
33	SAC	+	34	dTAG	-	35	dTRE	-	36	CIT	+	37	MNT	-	39	5KG	-
40	ILATK	+	41	AGLU	-	42	SUCT		43	NAGA	-	44	AGAL		45	PHOS	+
46	GlyA		47	ODC	-	48	LDC	-	53	Hesa	-	56	CMT	+	57	BOUR	-
58	0129R		59	GGAA		61	MLTa	1.	62	ELUM	1.1	64	LATa	-	-		-

Name (User ID) Action Reviewed by:

Glorimar Velazco (gvelazco) Ub 80

Date/Time Jun 25, 2009 15:38 GMT-04:00 ∂& -∂ ≤ 0 9 Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified

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md circle to remove x Difficult to remove x S. Edge Consistence x Consistence x Cons	Pairs		Rough and wrinkled		vioted temperatures but have temperature
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bioMerieux Customer: 06395 Laboratory Report Printed Jun 25, 2009 15:38 GMT-04:00 System #: Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: grelazco Report Version: 2 of 2

Isolate Group: 10330-22-1

Bionumber: 5400001100200000 Selected Organism: Sphingomonas paucimobilis

-	Ala M.I-
Comments:	- staten Dh
and the second sec	1 -25-50

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:10 GMT-04:00	Status:	Final	Analysis Time:	5.25 hours
Selected Organism	96% Probabi Bionumber:		Sphingom	onas paucim	obilis Confidence:	Excellent identification
SRF Organism						
Analysis Organisms and 1	fests to Sepan	ate: 110	1	1.1		
Analysis Messages:			-A	Wazi	>	
Contraindicating Typical E	Biopattern(s)			12	×.	2-
Sphingomonas paucimobilis	PyrA(24),				_	200

Bio	chemical	Det	ails														
2	APPA	+	3	ADO	-	4	PyoA	+	5	IARL.	-	7	dCEL.	T	9	BGAL	+
10	H2S	-	11	BNAG	-	12	AGLTp	-	13	dGLU	-	14	GGT	1	15	OFF	+
17	BGLU	-	18	dMAL	-	19	dMAN	-	20	dMNE	-	21	BXYL	-	22	BAlap	1
23	ProA	+	26	LIP	-	27	PLE		29	TyrA	+	31	URE	-	32	dSOR	-
33	SAC	÷.	34	dTAG	ŀ	35	dTRE		36	CIT	-	37	MNT		39	5KG	-
40	ILATk .	-	41	AGLU	+	42	SUCT	-	43	NAGA	-	44	AGAL	-	45	PHOS	-
46	GIAA	-	47	ODC	-	48	LDC	-	53	IHISa		56	CMT	-	57	BGUR	-
58	O129R	- N.	59	GGAA	-	61	IMLTa	-	62	ELLM		64	ILATa		-		+

06-25-09

Action Name (User ID) Reviewed by: Glorimar Velazco (gvelazco)

Date/Time Jun 25, 2009 15:38 GMT-04:00

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guigetine: AES Parameter Set Mame:

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Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Sep 8, 2009 11:27 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10330-14-1

Bionumber: 0001411353701250 Selected Organism: Pseudomonas oryzihabitans

NAME OF COMPANY	
Comments:	

Identificatio	n	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information		Completed:	Jul 3, 2009 20:56 GMT-04:00	Status:	Final	Analysis Time:	7.00 hours
Selected Or	ganism	89% Probabil Bionumber:	Ry 0001411353701250	Pseudomo	mas oryzihab	itans Confidence:	Good identification
SRF Organism							

Analysis Messages:

Contraindicating Typical Biopattern(s)

Pseudomonas URE(9), SAC(1), PyrA(99),

Bic	chemica	I Def	ails														
2	APPA		3	ADO	-	4	PyrA	-	5	IARL	-	7	dCEL		9	BGAL	T
10	H2S	-	11	BNAG	-	12	AGLTp	-	13	dGLU	+	14	GGT		15	OFF	-
17	BGLU) e .	18	dMAL		19	dMAN	+	20	dMNE	+	21	BXYL	-	22	BAIsp	1
23	ProA.	+	26	UP		27	PLE		29	TyrA	+	31	URE	+	32	dSOR	-
33	SAC	+	34	dTAG		35	dTRE	+	38	CIT	+	37	MNT	+	39	5KG	-
40	LATK	+	41	AGLU	(+)	42	SUCT	+	43	NAGA	-	44	AGAL	-	45	PHOS	ŀ
46	GlyA	+	47	ODC		48	LDC	1	53	HISa		56	CMT	+	57	BOUR	-
58	0120R	+	59	GGAA	-	61	IMLTa	+	62	ELLM		64	ILATa				-

Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco)

Date/Time Sep 8, 2009 11:27 GMT-04:00 09-08-04

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 1 of 1

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9760-60 :BLVQ	Feathery			-				REVIEWED BY	
Rhizold	Punctiform		-	-			-	DATE	10-00-60
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IDENTIFICATION METHOD: VITEK 2 Compact System	IDENTIFICATION /	NETHOD:	TIN	EK 2 C	ompact System				
IDENTIFIED AS: 89% Pseudomonas oryzihabitans	IDENTIFIED AS:	89% P	seud	omomo	us oryzihabitans				

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:37 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10330-14-2

Bionumber: 4201734750241000 Selected Organism: Klebsiella pneumoniae ssp ozaenae

Hulge 042509 Ale Comments:

Sector and the sector of the	Card:	GN	Lot		-	Jan 7, 2010 12:00
Identification	Gard:	UN	Number:	241112040	expires:	GMT-04:00
Information	Completed:	Jun 24, 2009 17:55 GMT-04:00	Statua:	Final	Analysis Time:	5.00 hours
Selected Organism	92% Probabi	lity	Klebsiella	pneumoniae	ssp ozaenae	,
Selected Organism	Bionumber:	4201734750241000			Confidence:	Good identification
SRF Organism	electrony and the second	ala				
Analysis Organisms and T	ests to Separa	te: 119	<u>94</u>	60		
Analysis Messages:			1	Ye (04-25	
Contraindicating Typical B	liopattern(s)					00
Klebsiella pneumoniae ssp ozaenee	AGAL(99),					\prec

BIO	chemical	Det	ails					200									
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10	H2S	1	11	BNAG.	-	12	AGLTp	-	13	dGLU	+	14	GGT	-	15	OFF	-
17	BGLU	+	18	dMAL	+	19	dMAN	+	20	dMNE	+	21	BXYL	+	22	BAlap	
23	ProA		26	LIP	-	27	PLE	+	29	TyrA		31	URE	+	32	dSOR	+
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	-	37	MNT	-	39	5KG	
40	LATK	1	41	AGLU	+	42	SUCT	-	43	NAGA	1	44	AGAL	-	45	PHOS	+
46	GlyA	+	47	ODC	-	45	LDC	-	53	IHISa	-	56	CMT		57	BGUR	-
58	0129R	-	59	GGAA	+	61	IMLTa		62	ELLM	-	64	ILATa	-	-	-	-

Action Reviewed by:

Name (User ID) Gigrimar Velazco (gvelazco) 09-25-09 Ma

Date/Time Jun 25, 2009 15:37 GMT-04:00 Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

US

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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	Circular	×			Catalase		H	DATE	06-25-09
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	Punctiform				Oxidese	,	ŀ	REVIEWED BY!	Lizzette & Rivera, BSMT Lie, 2015
IDENTIFICATION METHOD: VITEK 2 Compact System IDENTIFIED As: 92% <u>Klebsiella</u> pneumonia ssp. <u>ozaenae</u>	Rhizoid			H			+	Dute	06-25-09
IDENTIFIED AS: 92% <u>Klebsiella</u> pneumonia ssp. <u>ozaenae</u>	IDENTIFICATION M	ETHOD	TIV	₩2	Compact System				
	TOPNITI-TED 45: 35	A Kiet	siell	DW	sumonia ssp. ozaenae				

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:37 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10330-17-1

Bionumber: 040000012220231 Selected Organism: Staphylococcus hominis

100	
Comments:	fila Allew Da
Contraction (1971)	1-00-25-05

Identification	Card: GP	Lot Number: 242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed: Jun 24, 2009 18:55 GMT-04:00	Status: Final	Analysis Time:	6.00 hours
Selected Organism	99% Probability Bionumber: 040000012220231	Staphylococcus homin	is Confidence:	Excellent
SRF Organism				
Analysis Organisms and Tes	ts to Separate:			
Stephylococcus hominis				
Staphylococcus hominis sap hominis	NOVO_R(1),			
Staphylococcus hominis sep novobiosepticus	NOVD_R(99),			
Analysis Messages:	Ma	111 0		
Contraindicating Typical Bio	pattern(s)	Mulge ou		
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			-2	

Bic	chemica	il De	etaik	s													
2	AMY	-	4	PIPLC	-	5	dXYL	-	8	ADH1	-	9	BGAL	1	11	AGLU	(*)
13	APPA		14	CDEX	-	15	AspA	-	16	BGAR		17	AMAN	-	19	PHOS	-
20	LeuA	-	23	ProA	-	24	BGURr		25	AGAL	ŀ	26	PyrA	-	27	BGUR	
28	AlaA	-	29	TyrA	-	30	dSOR	-	31	URE	+	32	POLYB	-	37	dGAL	-
38	dRIB		39	ILATE	+	42	LAC	-	44	NAG	-	45	dMAL	+	46	BACI	- 3
47	NOVO	ŀ	50	NC8.5	+	52	dMAN	-	53	dMNE	(-)	54	MBdG	-	58	PUL	-
57	dRAF		58	O129R	*	59	SAL	-	60	SAC	+	62	dTRE	+	63	ADH2s	-
64	OPTO	+	-		_				-	-		-			-		-

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:37 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Comment

Isolate Group: 10330-17-1 Bionumber: 040000012220231 Selected Organism: Staphylococcus hominis

Action Name (User ID) Reviewed by: Giorimar Valazco (gvelazco) Mulgis

Date/Time Jun 25, 2009 15:37 GMT-04:00 04-25-09

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

bioMerieux Customer: 06365 System #: Laboratory Report

Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

NEW YORK STREET, STREE

Isolate Group: 10330-22-1

Bionumber: 5400001100200000 Selected Organism: Sphingomonas paucimobilis

comments: Ala Marga De-25-09

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:10 GMT-04:00	Status:	Final	Analysis Time:	5.25 hours
Selected Organism	96% Probabi Bionumber:		Sphingom	onas paucim	obilis Confidence:	Excellent identification
SRF Organism						
Analysis Organisms and 1	fests to Sepan	ato: 110	1	1.1		
Analysis Messages:			-A	War	×-	
Contraindicating Typical E	Biopattern(s)			1	- V-	2-
Sphingomonas paucimobilis	Dud (Da)				_	Som

2	APPA	+	3	ADO	-	4	PyoA	+	5	IARI.	-	7	dCEL	-	9	BGAL	+
10	H2S	-	11	BNAG		12	AGLTp	-	13	dGLU	-	14	GGT	1	15	OFF	ナ
17	BGLU	-	18	dMAL	-	19	dMAN	-	20	dMNE	-	21	BXYL	-	22	BAlap	1.
23	ProA	+	26	LIP	-	27	PLE		29	TyrA	+	31	URE	-	32	dSOR	-
33	SAC	+	34	dTAG		35	dTRE		36	CIT		37	MNT	1	39	5KG	+
40	ILATk .	-	41	AGLU	+	42	SUCT	-	43	NAGA	-	44	AGAL	-	45	PHOS	1
46	GIAA	-	47	ODC	-	48	LDC	-	53	IHISa	-	56	CMT	1	57	BGUR	-
58	0129R	- C.	59	GGAA	-	61	IMLTa	-	62	ELLM		64	ILATa	-	-		+

Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco) D

Date/Time Jun 25, 2009 15:38 GMT-04:00 りしーンジーンタ

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guigétine: AES Parameter Set Name:

14

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

MICROBIAL ISOLATE CHARACTERIZ MICROBIAL ISOLATE CHARACTERIZ ALCROBIAL ISOLATERIZ ALCROBIAL ISOLATE CHARACTERIZ ALCROBIAL ISOLATERIZ ALCROBIAL ISOLATERIZ ALCROBIAL ISOLATERIZ ALCROBIAL IN MAC	MICROBIAL ISOLATE CHARACTERIZ MICROBIAL ISOLATE CHARACTERIZ ALCROBIAL ISOLATE CHARACTERIZ ALCROBIAL ISOLATE CHARACTERIZ ALCROBIAL ISOLATE CHARACTERIZ ALCROBIAL ISOLATE CHARACTERIZ ALCROBIAL ALCROBIAL			I.	SOP No. 300-002
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		Rhizold		REVIEWED SY: DATE:	Lizzette M. Rivera, BSMT Lic 2015 06-25-09
IDENTIFIED AS: 96% Sphingomonas paucimobilis		IDENTIFICATION METHOD: VITEK 2 System			
	IDENTIFIED AS: 96% Sphingomonas paucimobilis	IDENTIFIED AS: 96% Sphingomonas pauci	mobilis		

bioMerieux Customer: 05365 System #:

Laboratory Report

Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: gvelazoo Report Version: 2 of 2

Isolate Group: 10330-23-1

Bionumber: 0373500564456220 Selected Organism: Bacillus megaterium

Y	Ma Mill
Comments:	The country Da
	25-05

Identification		Card:	BCL	Lot Number:	239124110	Expires:	May 8, 2010 12:00 GMT-04:00
Information	and the second	Completed:	Jun 25, 2009 03:11 GMT-04:00	Status:	Final	Analysis Time:	14.25 hours
Selected Org	janism	95% Probabi Bionumber:	Ry 0373500564456220	Bacillus m	egaterium	Confidence:	Very good identification
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Analysis Organi	sms and 1	lests to Separ	ato: 19 Sta	yes			
Analysis Messa	ges:			100	04.	.la	
Contraindicating	g Typical E	Biopattern(s)				200	2
Barillus menateri	um	GLYG(94) PL	E(70) APPA/29)				

Contraindicating Typical Biopattern(s) Bacillus megaterium GLYG(94),PLE(70),APPA(29).

Bic	chemic	al D)eta	ils													
1	BXYL		3	LysA.		4	AspA		5	LeuA	+	7	PheA	+	8	ProA	· -
9	BGAL	+	10	PytA	+	11	AGAL	+	12	AlaA	+	13	ТугА	+	14	BNAG	(.)
15	APPA	+	18	CDEX	-	19	dGAL	+	21	GLYG	+	22	INO		24	MdG	
25	ELLM	+	26	MdX	ŀ	27	AMAN	-	29	MTE	+	30	GNA	-	31	dMAN	+
32	dMNE		34	dMLZ	+	36	NAG	(+)	37	PLE	-	39	IRHA	-	41	BGLU	+
43	BMAN	+	44	PHC	-	45	PVATE	+	46	AGLU	+	47	dTAG		48	dTRE	+
50	INU	-	53	dGLU	+	54	dRIB	+	56	PSCNa	-	58	NaCl 6.5%	+	59	KAN	-
60	OLD	1	61	ESC	+	62	TTZ	-	63	POLYB R	-	T			-		+

Action Reviewed by:

Name (User ID) Glorimar Velazoo (gvelazoo) Mulsy

Date/Time Jun 25, 2009 15:38 GMT-04:00 06-25-09

Comment

VITEK 2 Systems Version: 0301 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 30, 2009 15:12 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10330-24-1

Bionumber: 4601720101220001 Selected Organism: Serratia odorifera

comments:

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed	Jun 25, 2009 22:05 GMT-04:00	Status:	Final	Analysis Time:	4.50 hours
Selected Organism	99% Probabi Bionumber:	Ny 4601720151220001	Serratia or	dorifera	Confidence:	Excellent identification
SRF Organism		Dla .	2.			
Analysis Organisms and	Tests to Separ	ate:	Was			
Analysis Messages:			4900	04-	24	
Contraindicating Typical	Biopattern(s)			- C	wa-	

2	APPA		3	ADO		4	PyrA	+	5	IARL	-	7	dCEL.	+	9	BGAL	+
10	H2S		11	BNAG	-	12	AGLTp	-	13	dGLU	+	14	GGT	-	15	OFF	-
17	BGLU		18	dMAL	+	19	dMAN	+	20	dMNE	+2	21	BXYL.	+	22	BAJap	-
23	ProA	-	26	LIP		27	PLE		29	TynA	+	31	URE	÷.	32	dSOR	
33	SAC	+	34	dTAG	-	35	dTRE	+	36	CIT	+	37	MNT	-	39	5KG.	-
40	ILATK	1	41	AGLU	+	42	SUCT	-	43	NAGA		44	AGAL	+	45	PHOS	-
48	GiyA.		47	ODC		48	LDC		53	IHISa.	-	58	CMT	-	57	BGUR	
58	O129R	-	59	GGAA	-	61	MLTa		62	ELLM	+	64	ILATa	-	-		+

Action Reviewed by:

Name (User ID) Date/Time Jun 30, 2009 15:12 GMT-04:00 Glorimar Velazco (gvelazco) 06-30-09

Comment

ludge h u

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified

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4 METHOD: VITEK 2 Compact System 000%. SEDD 4 TT 4 OMODTEED 4			REVIEWED BY: Lizzette M. Rivers, BSMT Lic
Z METH	Irregular		
4 WETH	Feathery		
4 METH	Punctiform		
A METH	Rhizoid		
	IDENTIFICATION METHOD: VITEK 2 Compact Syste	6	
		ERA	
	IDENTIFICATION METHOD: VITEK 2 Compact System IDENTIFIED AS: 99% SERRATIA ODORIFERA	ERA	-

INDUSTRIAL TEL 107450-8800 LABORATORY Exist Conducting Spric and

FDA No. 30033383013

CLENDO CONTROL NO. 10332

CUSTOMER SAMPLE ANALYSIS REPORT

Page 1 of 2

A. CUSTOMER NAME	WALESKA DIAZ
B. CLIENT NUMBER	0590
C. ADDRESS	URB. VILLA VICTORIA CAGUAS P.R. 00725
D. TELEPHONE	787-429-6644
E. Fax	N/A
F. CONTACT PERSON	WALESKA DIAZ
G. DATE /TIME OF SAMPLE RECEIPT	06-15-09 / 17:20
H. DATE / TIME OF SAMPLING	06-15-09 / 11:30
L QUANTITY OF SAMPLES	8
J. DESCRIPTION OF SAMPLES	SAS-PLATES
K. SAMPLES COLLECTOR NAME	SAMUEL SERRANO
L. DATE/TIME ANALYSIS BEGINS:	06-15-09 / 18:00
M. RESULTS	والمتحجين والمركبة المحترية والمراجع والمراجع والمراجع والتركي والمادات وأشريه

PROCEDURE PERFORMED AS PER:

SOP NO.100-023 PROCEDURE FOR ENVIRONMENTAL AIR SAMPLING USING SAS SUPER 100 SURFACE AIR SYSTEM

REFERENCES:

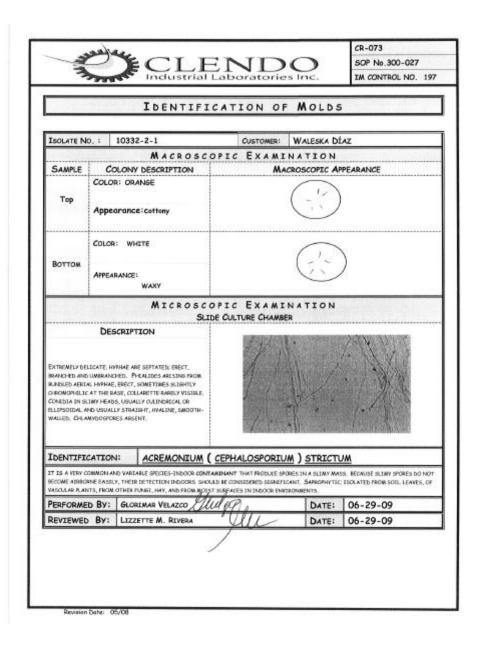
"MANUAL OF ENVIRONMENTAL MICROBIOLOGY" 2⁸⁴ EDITION 2002

SA	S YEAST/MOLD AI	R SAMPLING	RESULTS (4TH	DAY COUNT)
SAMPLE	TOTAL COUNT (Pr=Corrected Count)	CFU/m ³	CFUMt ³	IDENTIFICATION
10332-1	35	175	4.96	NIA
17	CFU	CFUM ³	CFU/FT ⁸	
10332-2	46	230	6.51	ACREMONIUM STRICTUM
6	CFU	CFUM ³	CFWFT ³	
10332-3	35	175	4.96	NIA
75	CFU	CFU/M ³	CFU/FT ⁹	
10332-4	42	210	5.95	ACREMONIUM CURVULUM
38	CFU	CFU/M ³	CFLVFT ³	
10332-5	75	375	10.62	NA
61	CFU	CFU/M ³	CFU/FT ⁸	
10332-6	78	390	11.04	N/A.
1	CFU	CFU/M ⁸	CFU/FT ³	
10332-7	69	345	9.77	N/A
BACKGROUND EXTERIOR	CFU	CFU/M ³	CFU/FT ³	

INDUSTRIAL IABORATORY FIL 787-020-1000 Enal: diandend@yrfc.ret

CLENDO CONTROL NO. 10332

10332-8 BACKGROUND OFICINA	125 CFU	625 CFU/M ³	17.7 CFWFT ^a	CLADOSPORIUM CLADOSP	POROIDES		
	SAS BACTER	RIA AIR SAI	MPLING RE	SULTS	1 Bostonia		
SAMPLE	TOTAL COUNT (Pr=Corrected Count)	CFU/m ³	CFUm	IDENTIFICATION	N		
10332-1 17	17 CFU	85 CFUM ²	2.41 CFWFT ³	98% Sphingomonas pauc 99% Staphylococcus epi			
10332-2 6	29 CFU	145 CFUM ⁹	4.11 CFLIFT ³	99% Micrococcus lut 94% Brevundimon diminuta/vesicular 99% Staphylococcus hen	as is		
10332-3 75	20 CFU	100 CFUM ²	2.83 CFU/FT ^a	99% Cryseobacterium indologe			
10332-4 38	14 CFU	70 CFUM ³	1.98 CFLWFT ³	N/A			
10332-5 61	19 OFU	95 CFUM ²	2.69 CFU/FT ^a	NíA			
10332-6 1	38 QFU	190 CFU/M ⁸	5.38 CFUNFT ³	98% Staphylococcus saprophytics 96% Staphylococcus saprophytics			
10332-7 BACKGROUND EXTERIOR	19 CIFU	95 CFUIM ⁵	2.69 CFU/FT ³	N/A			
10332-8 BACKGROUND OFICINA	28 CFU	140 CFU/M ²	3.96 CFU/FT ³	NA			
N. COMMENTS		Cont La lor G	and the state of the				
STUDY-1,000L FOR CLEAN OF SMALL HOLES OF A SH SURFACE OF A "CONTACT F TO BE PERFORMED, W INCUBATED. THE OR 50 CFU / M ³ (ROOMS/4MINUTES) *ECIAL DESIGN. THI *ECIAL DESIGN. THI *ECIAL DESIGN. THIS HEN THE PRESET S. GANISMS ARE THEN ASSESSMENT (OR 1.42 CFU) FT ³ O(IS CONSIDER)	THROUGH A C E RESULTING I MEDIUM CON AMPLING CYC VISIBLE TO T OF THE LEVEL F YEASTS / MO ED A SIGNIFIC.	OVER WHICH LAMINAR AIR F SISTENT WITH LE IS COMPLE HE NAKED EYI OF CONTAMIN UDS OR MORE ATIVE RISK FA	IN THE ENVIRONMENT	A SERIES HE AGAR MINATION		
PERFORMED BY: GLORIMAN VELATO - LABORATORY		Contraction of the	1111	DATE DATE	06-22-09		



		IDENT	IFICATION	OF MOLDS	
ISOLATE N	0:	10332-4-1	QUSTOWER:	WALESKA DÍAZ	
SAMPLE	1	M A C R COLONY DESCRIPTIC	OSCOPIC EX	AMINATION MACROSCOPIC AF	PEARANCE
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	Cot	ANR: YELLOW		\sim	
Воттом	APP	EARANCE: WAXY)
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PERFORME		the second se	111.1	DATE:	06-29-09
	By:	L.M. Rivera	UPII	DATE:	06-29-09

U.S.			END	Os Inc.	SOP No.300-027 IM CONTROL NO. 19
		IDENTIFI	CATION OF	MOLDS	No. of Contract
CONTROL N	lo. : 1033	2-8-1	CUSTOWER: V	Waleska Dźaz	
SAMPLE		MACROSC COLONY DESCRIPTION	OPIC EXAMI	N A T I O N MACROSCOPIC A	APPEARANCE
Тор	Color:	OUV ACTORS CREEN		(=)	
	APPEAR	NICE: VELVETV		\sim	
BOTTOM	COLOR:	BLACK		(\Box)	
	APPEARA	NCE: woors		C)	
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REVISED		GLORIMAR VELAZCO	Mage Internet	DATE:	06-29-09
PEATOCD	DY.	CALLETTE M. REVERA	an	DATE:	06-29-09

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10332-1-1

Bionumber: 500000100200401 Selected Organism: Sphingomonas paucimobilis

A DESCRIPTION OF	11a Hut
omments:	no in
	00-1-

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:57 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
Selected Organism	98% Probabi Bionumber:	Ry 500000100200401	Sphingom	onas paucim	obilis Confidence:	Excellent identification
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Contraindicating Typical I	Biopattern(s)				26-20	
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Bio	chemical	Deta	ils.														
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10	H25	+	11	BNAG	-	12	AGLTp		13	dGLU	-	14	GGT	-	15	OFF	-
17	BGLU	(-)	18	dMAL.	-	19.	dMAN	-	20	dMNE		21	BXYL	-	22	BAlap	
23	ProA.		26	LIP		27	PLE	-	29	TyrA		31	URE	-	32	dSOR	+
33	SAC	-	34	dTAG		35	dTRE	-	36	CIT	-	37	MNT	-	39	5KG	-
40	LATK	-	41	AGLU	+	42	SUCT	-	43	NAGA		44	AGAL	F	45	PHOS	-
46	GlyA	-	47	ODC	- 20	48	LDC	-	53	IHISa	-	56	CMT		67	BGUR	(+)
58	0129R	-	59	GGAA		61	IMLTa	-	62	ELLM	+	64	ILATa	-			

Action Reviewed by:

Name (User ID) Giorimar Velazoo (gvelazco) Sugge

Date/Time Jun 25, 2009 15:38 GMT-04:00 06-25-05

Comment

lu VITEK 2 Systems Version; 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:38 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10332-1-2

Bionumber: 010400056621211 Selected Organism: Staphylocoocus epidermidis

	No all	
Comments:	The Multipe Ol	
	06-25-01	5

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:57 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
Related Opportunity	99% Probabi	lity	Staphyloco	occus epiden	nidis	
Selected Organism	Bionumber:	010400056621211			Confidence:	Excellent identification
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Action Reviewed by:

Name (User ID) Glorimar Velazco (gvelazco) RD X ll

lu

Date/Time Jun 25, 2009 15:38 GMT-04:00 04-25-05

Comment

VITEK 2 Systems Version 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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bioMerieux Customer: 06365 System #: Laboratory Report

Printed Jun 25, 2009 15:44 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Isolate Group: 10332-2-1 Last Updated: Jun 25, 2009 15:44 GMT-04:00 By: gvelazco Bionumber: 040032300000000 Selected Organism: Micrococcus luteus

Comments:	ma Mulles No-25120

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:0 GMT-04:00
Information	Completed:	Jun 24, 2009 18:56 GMT-04:00	Status:	Final	Analysis Time:	6.00 hours
Colorited Ownerslaws	99% Probabi	ity	Micrococc	us luteus		
Selected Organism	Bionumber:	040032300000000			Confidence:	Excellent identificat
SRF Organism						
Analysis Organisms and	Tests to Separ	ate:				
Micrococcus luteus / lylae						
Micrococcus luteus	YELLOW(95)	h.				
Micrococcus lylae	YELLOW(1),					
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Contraindicating Typical	Biopattern(s)	Altelgo	12			
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Bio	chemica	l De	tails														
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13	APPA	-	14	CDEX		15	AspA	ŀ	16	BGAR.		17	AMAN		19	PHOS	
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VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

By: gvelazco

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:44 GMT-04:00 Printed by: gvelazoo Report Version: 3 of 3

Isolate Group: 10332-2-1 Last Updated: Jun 25, 2009 15:44 GMT-04:00 Bionumber: 040032300000000 Selected Organism: Micrococcus luteus

Action Name (User ID) Reviewed by: Glorimar Velazco (gvelazco) Hulpo

Date/Time Jun 25, 2009 15:44 GMT-04:00 Comment 84-25-05

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

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DENTIFICATION METHOD: VITEK 2 Compact	Rhizoid)
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IDENTIFIED AS: 99% MICROCOCCUS INTEUS				

BSSUED: 01/24/09

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jul 3, 2009 09:55 GMT-04:00 Printed by: gvelazoo Report Version: 3 of 3

Isolate Group: 10332-2-2 Last Updated: Jul 3, 2009 09:18 GMT-04:00 By: gvelazco Bionumber: 1002103100440020 Selected Organism: Brevundimonas diminuta / vesicularis

Man Andrew Star	07-12-02
Comments:	Julaco 1

Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 20:56 GMT-04:00	Status:	Final	Analysis Time:	8.00 hours
	94% Probabil	lity	Brevundim	ionas diminu	ta / vesiculari	5
Selected Organism	Bionumber:	1002103100440020			Confidence:	Very good identification
SRF Organism						
Analysis Organisms and Te	sts to Separate	80				
Brevundimonas diminuta / vesicularis						
Brevundimonas diminuta	ESCULIN(1),	dMALTOSE(1),				
Brevundimonas vesicularis	ESCULIN(99)),dMALTOSE(99),				
Analysis Messages:						
Contraindicating Typical Bi	opattern(s)					
Brevundimonas diminuta / vesicularis	SUCT(4),AGI	LTp(90).				

2	APPA	+	3	ADO	-	4	PyrA	-	5	IARL	-	7	dCEL	-	9	BGAL	
10	H25		11	BNAG		12	AGLTp		13	dGLU		14	GGT	+	15	OFF	-
17	BGLU	+	18	dMAL		19	dMAN	-	20	dMNE	-	21	BXYL	-	22	BAlap	-
23	ProA	+	26	LIP	+	27	PLE	-	29	TyrA	+	31	URE		32	dSOR	
33	SAC		34	dTAG		36	dTRE	-	36	CIT		37	MNT	-	39	5KG	-
40	LATK		41	AGLU		42	SUCT	+	43	NAGA	-	44	AGAL	- 1	45	PHOS	- +
46	GhoA		47	ODC		48	LDC	-	53	HISa	-	56	CMT	-	57	BGUR	
58	0129R		59	GGAA	+	61	IMLTa	-	62	ELLM		64	ILATa	-			

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

By: gvelazco

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jul 3, 2009 09:55 GMT-04:00 Printed by: gvelazco Report Version: 3 of 3

Comment

Isolate Group: 10332-2-2 Last Updated: Jul 3, 2009: 09:18 GMT-04:00 Bionumber: 1002103100440020 Selected Organism: Brevundimonas diminuta / vesicularis

Action Name (User ID) Date/Time Reviewed by: Glorimar Velazco (gvelazco) Jul 3, 2009 09:18 GMT-04:00 r: Glorimar Velazco (gwelazco) Jul 3, 200 JUU po 07-03-09

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

Page 2 of 2

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bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:39 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10332-2-3

Bionumber: 050002006200231 Selected Organism: Staphylococcus haemolyticus

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Comments:	Mulaw or
	04-25-69

Identification	Card:	GP	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 17:54 GMT-04:00	Status:	Final	Analysis Time:	5.00 hours
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Action Reviewed by:

Name (User ID) Glorj eta. GP nar Velazco (gvelazco) a Uı

Date/Time Jun 25, 2009 15:39 GMT-04:00 04-2509

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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IDENTIFICATION METHOD: VITEK 2 Compact System	IDENTIFICATION METHOD: VITEK 2 COMPACT System	
IDENTIFIED AS: 99% Staphylococcus haemolyticus	IDENTIFIED AS: 99% Staphylococcus haemolyticus	

bioMerieux Customer: 06365 System #:

Laboratory Report

Printed Jun 25, 2009 15:39 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10332-3-1

Bionumber: 1060103100240020

Selected Organism: Chryseobacterium indologenes



Identification	Card:	GN	Lot Number:	241112040	Expires:	Jan 7, 2010 12:00 GMT-04:00
Information	Completed:	Jun 24, 2009 18:56 GMT-04:00	Status:		Analysis Time:	6.00 hours
Selected Organism	99% Probabi	lity	Chryseob	acterium indoi	logenes	
Selected Organism	Bionumber	1060103100240020			Confidence:	Excellent identification

SRF Organism

Organism Analysis Organisms and Tests to Separate Analysis Messages:

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2	APPA	+	3	ADO		4	PyrA	-	5	IARL		7	dCEL	-	9	BGAL	-
_	APPA H2S	+	3	ADO BNAG	-	4	PyrA AGLTp	•	5 13	IARL dGLU	•	7 14	dCEL GGT	-	9 15	BGAL OFF	•
10		+	-		+	4 12 19		+	5 13 20		•	7 14 21		-			•
10 17	H25	÷	11	BNAG	+	-	AGLTp	+	-	dGLU	-		GGT	-	15	OFF	-
10 17 23	H2S BGLU	÷	11 18	BNAG dMAL	÷	19	AGLTp dMAN	+	20	dGLU dMNE	-	21	GGT BXYL	-	15 22	OFF BAlap	-
10 17 23 33	H2S BGLU ProA	÷	11 18 26	BNAG dMAL LIP	÷	19 27	AGLTp dMAN PLE	+	20 29	dGLU dMNE TyrA	- - - -	21 31	GGT BXYL URE	- - - - -	15 22 32	OFF BAlap dSOR	-
2 10 17 23 33 40 46	H2S BGLU ProA SAC	÷	11 18 26 34	BNAG dMAL LIP dTAG	+	19 27 35	AGLTp dMAN PLE dTRE	- + - - -	20 29 36	dGLU dMNE TyrA CIT	- - - - - -	21 31 37	GGT BXYL URE MNT	- - - - - - -	15 22 32 39	OFF BAlap dSOR 5KG	- - - - - -

Action Reviewed by:

Name (User ID) Glorimar Yelazco (gvelazco) Malen

Date/Time Jun 25, 2009 15:39 GMT-04:00 Comment 06-2509

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Stt Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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Connect     x     Connect     x     x       x     4. Surface     x     x     x       x     x     5moth     x     x       x     x     5.5 Gog     5.6 Gog     x       x     x     5.6 Gog     x     x       x     x     5.6 Gog     x     x       x     x     1.0 dotter     x     x       x     y     5.6 Gog     x     x       x     x     1.0 dotter     x     x       x     y     1.0 dotter     x     x       x     y     5.6 dog     x     x       x     y     1.0 dotter     x     x       x     x     5.6 dog     x     x       x     y     1.0 dotter     x       x     y     1.0 dotter     x       x     x     1.0 dotter     x       x     x     1.0 dotter     x       x     y     1.0 dotter <td>Connect     x     Connect     x     x       x     x     4. Surface     x     x       x     x     5moth     x     x       x     x     5. Edge     x     x       x     x     5. Edge     5. Edge     x       x     x     1. Edge     5. Edge     x       x     x     1. Edge     1. Entitie     x       x     x     5. Edge     1. Entitie     x       x     x     5. Edge     x     x       x     x     1. Entitie     x     x       x     x     5. Edge     x     x       x     x     1. Entitie     x     x       x     x     5. Edge     x     x       x     x     5. Edge     x     x       x     x     5. Edge     5. Entitie       x     x     5. Edge     x     x       x     x     5. Entitie     x     x       x     x     5. Edge     5. Entitie</td> <td>Connect     x     Connect     x     x       x     x     4. Surface     x     x       x     x     5. Surface     x     x       x     x     Bagese     x     x       x     x     Connectifie     x     x       x     x     Bagese     x     x       x     x     Connectifie     x     x       x     x     Connectifie     x     x       x     x     Unividuate     x     x       x     x     Unividuate     x     x       x     x     Secondate     x     x       x     Filomentous     x     x     x       x     x     Filomentous     x     x       x     x     x     <t< td=""><td>Connect         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x<!--</td--></td></t<></td>	Connect     x     Connect     x     x       x     x     4. Surface     x     x       x     x     5moth     x     x       x     x     5. Edge     x     x       x     x     5. Edge     5. Edge     x       x     x     1. Edge     5. Edge     x       x     x     1. Edge     1. Entitie     x       x     x     5. Edge     1. Entitie     x       x     x     5. Edge     x     x       x     x     1. Entitie     x     x       x     x     5. Edge     x     x       x     x     1. Entitie     x     x       x     x     5. Edge     x     x       x     x     5. Edge     x     x       x     x     5. Edge     5. Entitie       x     x     5. Edge     x     x       x     x     5. Entitie     x     x       x     x     5. Edge     5. Entitie	Connect     x     Connect     x     x       x     x     4. Surface     x     x       x     x     5. Surface     x     x       x     x     Bagese     x     x       x     x     Connectifie     x     x       x     x     Bagese     x     x       x     x     Connectifie     x     x       x     x     Connectifie     x     x       x     x     Unividuate     x     x       x     x     Unividuate     x     x       x     x     Secondate     x     x       x     Filomentous     x     x     x       x     x     Filomentous     x     x       x     x     x <t< td=""><td>Connect         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x<!--</td--></td></t<>	Connect         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x         x </td
Pulvinete     Advinete       x     4, Surface       x     4, Surface       x     8poseth       x     Bapaseth       x     Concentric       x     Librotice       x     Lobotic       x     Filometricuis       x     Filometricuis       x     Filometricuis       x     Filometricuis       x     Filometricuis       x     Filometricuis	Pulvinete     Advinete       x     4, Surface       x     8, Sorth       x     8, Sorth       x     Concentric       x     Lobots       x     Filometrous       x     Filometrous       x     Serroted       x     Filometrous       x     Filometrous	Pulvinete     Advinete       x     4, Surface       x     4, Surface       x     Bageeth       x     Concentric       x     Entitive       x     Lobote       x     Filomentous	Pulvinete     Ruthate       x     4, Surface       x     8, Surface       x     8, Surface       x     8, Surface       x     0, Surface       x     1, Surface<
x     4. Surface       x     Smooth       x     Smooth       x     Smooth       x     Smooth       x     Concentric       x     Concentric       x     Scroted       x     Scroted       x     Lobdate       x     Served	x     4. Surface     1       x     Smoth     Smoth       x     Smoth     1       x     Concentric     1       x     Concentric     1       x     Strothkad, atherent     x       x     Strothkad, atherent     x       x     Uodalate     x       x     Vinikkad, atherent     x       x     Served     x       x     Lobalate     x       x     Served     x       x     Served </td <td>x     4. Surface     3       x     5     5       x     5     5       x     0     5       x     0     5       x     0     5       x     0     5       x     0     5       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0</td> <td>x     4. Surface     1       x     5moth     5moth       x     5moth     1       x     5.60g     1       x     1</td>	x     4. Surface     3       x     5     5       x     5     5       x     0     5       x     0     5       x     0     5       x     0     5       x     0     5       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0     0       x     0	x     4. Surface     1       x     5moth     5moth       x     5moth     1       x     5.60g     1       x     1
x     Smeeth Supples     Smeeth Ruppes       x     Currentric       x     Currentric       x     Currentric       x     Minnkled, adherent       x     S. Edge       Induite     Unduite       x     S. Edge       x     S. Edge       x     S. Edge       x     Serroted       x     Filomentous       x     Filomentous       x     Townentous       x     Serroted       x     Serroted       x     Townentous       x     Townentous	x     Smooth Suppose     Smooth Ruppese       x     currentrit       x     Currentrit       x     Currentrit       x     State	x     Smooth Suppose     Smooth Ruppese       x     k     Currentific       x     Currentific     Nmmkkal adherent       x     S. Edge     Edge       x     S. Edge     Filometriout       x     S. Edge     Nmmkkal adherent       x     S. Edge     Filometriout       x     Lobote     x       x     Filometriout     x       x     Servited     x       x     Servited       x     Filometriout       x     Servited	x     Smooth Biggese x     Smooth Biggese concerted x     No       x     Concerted x     Concerted x     x       x     Concerted x     x       x     5.646 Entire     x       y     Secreted x     x       x     Filomerious       x     Filomerious       x     Secreted x
x     Rugese       x     Concentric       x     Concentric       x     Concentric       x     Concentric       x     Second       X <t< td=""><td>x     Rugese     Rugese       x     Contentrit     Contentrit       x     Contentrit     x       x     5.643e     x       x     5.643e     x       x     1.06440t     x       x     5.643e     x       x     5.643e     x       x     1.06440t     x       x     5.643e     x       x     1.06440t     x       x     5.643e     x       x     1.06440t     x       x     5.643e     1.06440t       x     1.06440t     x       x     7.0040t     1.06440t       x     7.0040t     1.06440t       x     7.0040t     1.06440t       x     7.0040t     1.06440t       x     7.0040t     1.0040t</td><td>x     Imagese     Ruggese     Imagese       x     Contentrite     Contentrite     Imagese       x     Entire     Unduite     Imagese       x     5. Edge     Entire     Imagese       x     Imagese     Imagese     Imagese       x     Imagese     Imagese</td><td>x     Rugese     Rugese       x     Concentric     n       x     Concentric     n       x     Concentric     n       x     Concentric     x       x     Second     x  </td></t<>	x     Rugese     Rugese       x     Contentrit     Contentrit       x     Contentrit     x       x     5.643e     x       x     5.643e     x       x     1.06440t     x       x     5.643e     x       x     5.643e     x       x     1.06440t     x       x     5.643e     x       x     1.06440t     x       x     5.643e     x       x     1.06440t     x       x     5.643e     1.06440t       x     1.06440t     x       x     7.0040t     1.06440t       x     7.0040t     1.06440t       x     7.0040t     1.06440t       x     7.0040t     1.06440t       x     7.0040t     1.0040t	x     Imagese     Ruggese     Imagese       x     Contentrite     Contentrite     Imagese       x     Entire     Unduite     Imagese       x     5. Edge     Entire     Imagese       x     Imagese     Imagese	x     Rugese     Rugese       x     Concentric     n       x     Concentric     n       x     Concentric     n       x     Concentric     x       x     Second     x
x     Concentric     x       x     concentric     x       x     concentric     x       x     b     contentred       x     b     contentred       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b     b       x     b       x     b <td>x     Concentric     x       x     1     Contaured       x     5. Edge     5. Edge       x     5. Edge     5. Edge       x     1     Undulate       y     1       x     1       y     5. Edge       x     1       y     1       x     1       x     1       x     5. Edge       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x<td>x     Concentric     n       x     1     Contentration     x       x     1     Contentration     x       x     1     Contentration     x       x     5     5.64gs     Entitive       v     1     Undufate     x       v     1     Contentration     x       x     1     Contentration     x       x     1     Secreted     x       x     1     Filometricuts     x       x     1     Filometricuts     x       x     1     Secreted     x       x     1     Secr</td><td>x     Concentric     n       x     0     Contrained     x       x     5     5     5       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0       x     0</td></td>	x     Concentric     x       x     1     Contaured       x     5. Edge     5. Edge       x     5. Edge     5. Edge       x     1     Undulate       y     1       x     1       y     5. Edge       x     1       y     1       x     1       x     1       x     5. Edge       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x <td>x     Concentric     n       x     1     Contentration     x       x     1     Contentration     x       x     1     Contentration     x       x     5     5.64gs     Entitive       v     1     Undufate     x       v     1     Contentration     x       x     1     Contentration     x       x     1     Secreted     x       x     1     Filometricuts     x       x     1     Filometricuts     x       x     1     Secreted     x       x     1     Secr</td> <td>x     Concentric     n       x     0     Contrained     x       x     5     5     5       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0       x     0</td>	x     Concentric     n       x     1     Contentration     x       x     1     Contentration     x       x     1     Contentration     x       x     5     5.64gs     Entitive       v     1     Undufate     x       v     1     Contentration     x       x     1     Contentration     x       x     1     Secreted     x       x     1     Filometricuts     x       x     1     Filometricuts     x       x     1     Secreted     x       x     1     Secr	x     Concentric     n       x     0     Contrained     x       x     5     5     5       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0     0       x     0     0       x     0
x     Contaured Wrinklad, adherent     x       x     5, 6dge Entire     x       x     5, 6dge       x     0.ndd/are       x     0.ndd/are       x     1.0nd/are       x     2.6dge       x     1.0nd/are       x     2.6dge       x     1.0nd/are       x     3.6norted       x     1.0nentrous       x     1.0nentrous       x     1.0nentrous       x     1.0nentrous       x     1.0nentrous       x     1.0nentrous	x     Contraured Wrinklad, adhreent     x       x     5. 6dge Entire     5. 6dge       x     5. 6dge       ritine     Unduite       x     1. 0 miduite       x     1. 0 miduite       x     5. 6dge       x     1. 0 miduite       x     1. 0 miduite       x     5. 6dge       x     1. 0 miduite       x     5. 6dge       x     1. 0 miduite	x     Contaured Wrinkled, athreent     x       x     5, Edge Entire     5, Edge       x     5, Edge       x     0       v     1       x     0       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     <	x     Contaured Wrinklad, adhreent     x       x     5, 6dge Entire     5, 6dge       x     5, 6dge       x     0.uddiate       x     5, 6dge       x     7, 7       x     7, 7    x
x     b     Wrinkled, adherent     x       x     5. Edge     5. Edge       naddrife     Unddrife     1       1     5. Edge     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1	x     b     Wrinkled, adherent     x       x     5. Edge     5. Edge       Endotre     Unddrife     1       x     Lobote     x       x     Filomentous       x     Filomen	x     0. Edge     Wrinkled, adherent     x       x     5. Edge     Entire     1       indidre     Undidre     1       x     Lobote     x       x     Filomentout       x     Filomentout       x     Servoted       x     Filomentout	x     b     Wrinkled, adherent     x       x     5.646     6711x     x       x     b     1.06416     x       x     b     3errated     x       x     b     5errated     x
x     5. Edge Entire Underte     6       y     Lobotie     1       x     Serrated     x       x     Filomertous       x     1       x     7       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1       x     1	x     5. Edge     Entire       x     Entire     Entire       y     Lobotione     x       x     Serroted     x       x     Filometrious       x     Filometrious       x     Serroted       x     Filometrious	x     5. Edge     Entire     1       i     Entire     Entire     1       v     i     Undefine     1       x     i     Serroted     x       x     i     Filomentous     1       x     i     Filomentous     i       x     i     Filomentous     i       x     i     Filomentous     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i     i       x     i     i       x     i <td>x     5. Edge Entire Undeficit x     1     1       y          x         x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x<!--</td--></td>	x     5. Edge Entire Undeficit x     1     1       y          x         x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x        x </td
Image: constraint of the second of the se	Image: constraint of the second of the se	Image: Construction     Entire     Entire       V     Lobota     x       Lobota     x       X     Secreted       X     Filometrous       X     Filometrous       X     Secreted       X     Secreted       X     Filometrous       X     Secreted	Filte     Entire       Imdidite     Undidite       V     Lobort       X     Servited       X     Filometriout
Undulate     Undulate       Lobate     Lobate       X     Serrated       X     Filometrout	Number     Undulate       V     Lookte       Lookte     Lookte       X     Serrated       X     Filometrout	Unducte     Unducte       V     Lobotte       Lobotte     Lobotte       X     Serrated       X     Filometroust       X     Filom	Implicit     Undulate       V     Loote       V     Service       Filometricut     ×       ×     Filometricut       ×     Implicit       ×     Implicit <tr< td=""></tr<>
Idoote     Lobote     ×        Y     Serroted     ×        Filomentous     ×        ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×         ×        ×        ×        ×        ×     × <td< td=""><td>Lobote     Lobote     ×       Y     Serroted     ×       Filomentous     ×       ×     Filomentous       ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×</td><td>Lobote     Lobote     ×       Y     Serrated     ×       Filometricut     ×       X     Filometricut       X     Filometricut    &lt;</td><td>Idoote     Lobote     ×       Y     Serroted     ×       Filomentous     ×       ×     Filomentous       ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×</td></td<>	Lobote     Lobote     ×       Y     Serroted     ×       Filomentous     ×       ×     Filomentous       ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×	Lobote     Lobote     ×       Y     Serrated     ×       Filometricut     ×       X     Filometricut       X     Filometricut    <	Idoote     Lobote     ×       Y     Serroted     ×       Filomentous     ×       ×     Filomentous       ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×        ×
Vellow     V     Serrated     ×       International     Filomentrous     ×     ×       International     ×     ×     ×	Vellow     V     Serrated     ×       Ör     Filometrous     ×     ×       Ör     ×     Filometrous     ×       Ör     ×     ×     ×       TIFED AS:     9%     Chryseobacterium indologenes	Vellow     V     Serrated     ×       for     Filometricuts     ×     ×       for     ×     Filometricuts     ×       for     ×     ×     ×       polar     ×	Vellow     V     Serrated     ×       Internation     ×     Filometricul     ×       Internation     ×     Filometricul     ×       Internation     ×     ×     ×
lon Filomentous Filomentous out a filomentous filomentous terretous out a filomentous out a filomentou	Filomenteut       filomenteut     Filomenteut       poler     x	Filomentous       filomentous     Filomentous       plan     market       plan     x	Filomentous       Air     Filomentous       plan     Air       plan     Ai
lor point x point the second s	lor bior bior bior bior bior bior bior bi	lor lor metrors riform TIFLCATION METHOD: VITTER 2 Compact System TIFLED As: 99% Chryseobacterium indologenes.	ior kerton point x here tertous fiform bet bed TFLCATION METHOD: VITEK 2 Compact System
IDENTIFICATION METHOD: VITEK 2 Compact System	IDENTIFICATION METHOD: VITEK 2 Compact System IDENTIFIED As: 99% Chryseobacterium indologenes.	IDENTIFICATION METHOD: VITEK 2 Compact System IDENTIFIED As: 99% <u>Chryseobacterium indologenes</u> .	IDENTIFICATION METHOD: VITEK 2 Compact System
	IDENTIFIED AS: 99% <u>Chryseobacterium</u> indologenes.	IDENTIFIED AS: 99% Chryseobacterium indologenes.	

bioMerieux Customer: 05365 System #

Laboratory Report

Printed Jul 3, 2009 09:14 GMT-04:00 Printed by: gvelazco Report Version: 2 of 2

Isolate Group: 10332-6 (1)-1

Bionumber: 070000017270231 Selected Organism: Staphylococcus saprophyticus

No.	Ala elever	
Comments:	Judge D7-D3	
	2005	

Identification	Card: GP	Lot 242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information	Completed: Jul 1, 2009 20:02 GMT-04:00	Status: Final	Analysis Time:	5.00 hours
Selected Organism	98% Probability Bionumber: 070000017270231	Staphylococcus saprop	hyticus Confidence:	Excellent identification
SRF Organism	1/4	Mulgo 07-		
Analysis Organisms and	Tests to Separate:	-20 07-	03	
Analysis Messages:			~00	2
Contraindicating Typical	Biopattern(s)			
Staphylococcus saprophylicus	AGLU(22).			

2	AMY	-	4	PIPLC		5	dXYL	-	8	ADH1		8	BGAL	+	11	AGLU	+
13	APPA		14	CDEX	-	15	AspA	-	16	BGAR	-	17	AMAN		19	PHOS	-
20	LeuA	-	23	PinA	-	24	BGURr		25	AGAL	1	26	PyrA		27	BGUR	-
28	NaA	-	29	TypA	-	30	dSOR	-	31	URE		32	POLYB	+.	37	dGAL	-
38	dRIB	+	39	ILATK	+	42	LAC	+	44	NAG	-	45	dMAL	+	46	BACI	-
47	NOVO	+	50	NC8.5	+	52	dMAN	+	53	dMNE	- e.,	54	MBdG		56	PUL	-
57	dRAF	-	58	0129R	+	59	SAL	-	60	SAC	+	62	dTRE	+	63	ADH2s	-
64	OPTO	+															T

Action Reviewed by: Name (User ID) Glopinjar Volazco (gvelazco)

helero

# Date/Time Jul 3, 2009_09:13 GMT-04:00 07-03-09

Comment

VITEK 2 Systems Version: 03.01 MIC Interpretation Guideline: AES Parameter Set Name.

61

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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3     3     Elevertion     1       x     Float     Controlocate     1       x     Controlocate     5     1       x     Spreading     Spreading     1       x     Spreading     Spreading     1       x     Autware     Autware     1       x     Autware     4     5       x     Autware     Autware     1       x     Bubycose     x       x     Bubycose <t< td=""><td>3. Elevertion     3. Elevertion     9. Elevertion       x     Filter     Contendente     0       x     Contendente     Contendente     0       x     Sereading     Sereading     0       x     Asted to slightly connex     0     0       x     Asted to slightly connex     0     0       x     Asted to slightly connex     0     0       x     Based to slightly     0     0       x     Based to slightly     0     0       x     Based to slightly     0     0       x     &lt;</td><td>Colorry No.</td><td>1</td><td>-</td><td></td><td>Colorry No.</td><td>1200</td><td></td><td></td></t<>	3. Elevertion     3. Elevertion     9. Elevertion       x     Filter     Contendente     0       x     Contendente     Contendente     0       x     Sereading     Sereading     0       x     Asted to slightly connex     0     0       x     Asted to slightly connex     0     0       x     Asted to slightly connex     0     0       x     Based to slightly     0     0       x     Based to slightly     0     0       x     Based to slightly     0     0       x     <	Colorry No.	1	-		Colorry No.	1200		
x     Flat     Flat       x     Curbenette     Curbenette       x     Curbenette     Curbenette       x     Context     Spreatrijon       x     Spreatrijon     Spreatrijon       x     Baised to slightly context     x       x     Pulmbrete     No       x     Pulmbrete     x       x     Baudit     x       x     Statementous     x       x     Mathematicular     x       x     Statementous     x       x     Statementous     x       x     Statementous     x	x     Flat     Flat       x     Currentiform     Currentiform       x     Currentiform     Currentiform       x     Convex     Spreating       x     Spreating     Baised to slightly convex     N       x     A     Spreating     N       x     A     Spreating     N       x     Authore     Spreating     N       x     Authore     Spreating     N       x     Spreating     Spreating     N       x     Spreating     N     N       x     Spreating     N     N       x     Spreating     N     N       x     Spreating     N     N       x     Stage     N     N	L. Type of Isolate			3. Ele	votion		T	
Imbonetie     Umbonetie       x     Centerform       x     Spreading       x     Spreading       x     Spreading       x     Advinante       x     Advinante       x     Smooth       x     Smooth       x     Advinante       x     Smooth       x     Smooth       x     Bulyneus       x     Smooth	All     Umbonate     Imbonate       x     Centenform     Centenform       x     Spreading     Spreading       x     Spreading     Spreading       x     Conex     Spreading       x     4.5 unface     N       x     4.5 unface     N       x     4.5 unface     N       x     Bugh     x       y     Undate     x       undate     Lobors       x     Filmeritos       x     Contas       x     Contas       x     Stath       x     Stath       x     Stath       x     Contas       x     Stath	Bacteria	×	_		Plat		- Secondaria	-
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x     x     Spreading       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1     1       1     1    1 <td>x     x     Spreading Based to signify convex     x       x     Aniversity     Aniversity     x       x     Aniversity     Aniversity     x       x     Aniversity     Aniversity     x       x     Based     Second     x       x     Bough     Builtyreaus     x       x     Bough     Britis     x       x     Bough     Convexity     x       x     Bough     x     x       x     Statery     x     x       x     Stophylococcus     x     x</td> <td></td> <td>The state</td> <td>Control of</td> <td></td> <td>Crateriform.</td> <td></td> <td></td> <td></td>	x     x     Spreading Based to signify convex     x       x     Aniversity     Aniversity     x       x     Aniversity     Aniversity     x       x     Aniversity     Aniversity     x       x     Based     Second     x       x     Bough     Builtyreaus     x       x     Bough     Britis     x       x     Bough     Convexity     x       x     Bough     x     x       x     Statery     x     x       x     Stophylococcus     x     x		The state	Control of		Crateriform.			
Raised to slightly connex     x       x     Authorite     Connex       x     Purface     x       x     4. Surface     x       x     Authorite     x       x     Buthreas     x       x     Undiate     x       x     Undiate     x       x     Contate     x	Alightly convex     Raised to slightly convex       x     - Orwex       x     - Orwex       x     - Orwex       x     - Surface       x	Gram Positive	*			Spreadine			
Image: Second state of the se	Aliversite Convex Aliversite Aliv	Gram Negative				Quised to slightly cornex	•	"STAPHY'=bun	ch of grapes: "SAPROS-putriot
Advince     Advince     Advince       x     4. Surface     5.       x     bill     bill       x     Burgh     x       burgh     x     x       cooglides     x       x     x <t< td=""><td>Advincete     Advincete     Advincete       x     4. Surface     5. Surface       x     bill     bill       x     Buby     5. Edge       x     Buby     x       x     Bubycoust     x       bubblete     Lobolatie     x       Lobolatie     Contolate     x       Catolate     -     -       x     Catolate     -</td><td>Gram Vaniable</td><td></td><td></td><td></td><td>Convex</td><td></td><td>SHITTON' BI</td><td>5</td></t<>	Advincete     Advincete     Advincete       x     4. Surface     5. Surface       x     bill     bill       x     Buby     5. Edge       x     Buby     x       x     Bubycoust     x       bubblete     Lobolatie     x       Lobolatie     Contolate     x       Catolate     -     -       x     Catolate     -	Gram Vaniable				Convex		SHITTON' BI	5
x     4. Surface       x     5moth     x       x     5moth     x       x     5moth     x       x     6multin     5moth       x     6multin     x       x     6multin     x       x     5. Edge     5moth       1     0.06dete     1       1     0.06dete     1       1     0.06dete     1       1     0.06dete     1       x     0.06dete     1       x     0.06dete     1       x     0.06dete     1       x     0.000dete     1       x     0.06dete     1       x     0.06dete     1       x     0.06dete     1       x     0.06dete     1       x     0.000dete     1	x     4. Surface     x       x     5 Surface     x       x     5 Surface     x       x     5 Surface     x       x     Baugh     x       blow tert     YB     Entire       x     State     State       x     Catalase     -       x     Stathylococcus     -		1140	10		Pulvinate		LINHOBORANS.	CUS*=growing on dead hissues
Smooth     x       bull     bull       bull     Each       Grandsr     Bulyreas       Bulyreas     Bulyreas       Cobolte     Lebete       Feathery     Fliamentous       V. Biochmark     Stations       Catolase     -       Coogulase     -       Contact     -	All     Smooth     x       x     bugh     x       x     Bugh     sevelur       x     Bugh     x       x     Bugh     x       x     Bugh     x       bugh     5.548       x     Bugh       x     Cotots       x     Catots	Cocci	*		4. Sur	face		Isolated acces	sionally from the skin of humans and
Dual     Dual       x     bual       x     Evenular       x     Ruyresh       x     Buyresh       budrate     x       budrate     x       budrate     x       budrate     x       budrate     x       budrate     x       contase     -       x     Contase       x     Contase       x     Contase       x     Contase       x     XILON METHOD:	Name     Dual     Dual       x     x     Evenular       x     Buryroush     n       burdlette     Lobolate       Lobolate     Lobolate       Lobolate     n       x     Contrast       x     Conducte       x     Conplace       x     Congulase       x     Conplace       x     Staphylococcus       x     Staphylococcus	Bacilli				Smooth	×	other maximals	and their products. Appears to be the
x     cenular     cenular       x     Naugh     Naugh       x     Butyrous       x     Undelete       x     Lobotate       x     Lobotate       x     Condetes	x     Cerevular     Cerevular       x     kuyreus     Suigh     N       x     Buryreus     Entire     x       x     S. Edge     x     x       x     S. Edge     x     x       x     S. Edge     x     x       x     Lobolate     Lobolate     x       x     Stanstry Searchars     x       x     Stanstry Searchars     x       x     Catolase     -       x     Staphylococcus     -	Coco-Bacilli				Dull		predominant si	aphylococcol species in acute what
x     Rugh     Rugh       x     Buryrous     Buryrous       x     Buryrous     Buryrous       x     5.564     X       boot     Conducte     X       conducte     Lobot     Lobot       filametros     Lobote     X       filametros     Conducte     X       x     X     Buchmatry Reactions       x     X     Conducte       x     Conducte     x       x     Conducte     x       x     Conducte     x	x     Baugh       x     b     Burbreas       x     b     Burbreas       x     b     b       x     b     b       x     b     b       b     b     b       b     b     b       b     b     b       b     b     b       b     b     b       b     b     b       b     b     b       b     b     b       b     b     b       b     b     b       consults     b     b       consultas     consultas     b       x     b     consultas       x     consultas     b       x     consultas     b       consultas     consultas       x     consultas       x     consultas       x     consultas	Single	×		0	Granular		fract whechow	s of young adult women. Optimum
x     Bullyreus       x     5, Edge       x     0, Edge       1     Undelate       x     Lobate       x     Catal       x     X. Biochemistry Reactions       x     Catolase	x     Bullyreus       x     5. Edge     5. Edge       x     Undiate     x       x     Undiate     x       x     Labore     1       x     V. Biochamatry Reactions     x       x     0.0000sc     1       x     0.0000sc     x	Pairs	×			Rough		remperature.	
Image: State of the sector	All     5, Edge     knine     x     x       Entine     Entine     x     x     x       Entine     Laborate     Laborate     x     x       Idew tert     YEL     Feathery     filamentous       x     X. Biodymentry Reactiones     x     x       x     X. Biodymentry Reactiones     x     x       x     Cotabase     x     x       XS: 98% Staphylococcus     saprophyticus	Tetrads	×			Butyrous		17 IS 0150 USE 0	rearable, in the remembrance process for
Entire     Entire     x       Undelete     Undelete     x       Lobotations     Lobotations     x       x     X     Biodemetry Reactions       x     X     Conduce     x       x     Conduce     x       x     Conduces     x       x     Conduces     x       x     Conduces     x       XINON METHOD:     VITEK 2 Compact System	All State All St	Chains			5. Edg	2		rideor developer	nerri and red coor emancement in med
Identet     Undulate     Includate       Identet     Lobore     Lobore       Identet     VEL     Francerou uny sectores       X     Francerou uny sectores     Included francerou uny sectores       X     V. Biochematry Reactions     Included francerous       X     Catolase     Included francerous       X     V     Conplase       X     V     Included francerous	Allow tert     Verbandate     Undulate     Intervention on the settlery       Idew tert     VEL     Liberte     Interventions       Image: Settlery     Verbandstry Seartions     Performer to settlery       Image: Settlery     Verbandstry     Performer to settlery	Clusters				Entire	×	Contraction protect	ALLE, and FOULTING DUTING DOLV OF UTAPOOR
Ileventer VEL Leberte Leberte Erethery Feathery Erethery X Electronical Anticologies	Lobore     Lobore       Illementous     Feathery     Feathery       Fillementous     Fillementous       x     0. Biodiversity Reactions       x     0. Biodiversity Reactions       x     0. Coopliase	Polisode				Undulate		Lin nouse in	considera:
Feathery     Feathery       Filamentois     Proproved by:       W. Blockensing Reactions     *       Conduce     *       Conduce     *       Conduce     *       Congulase     *       NTEK 2 Compact System	Feathery     Feathery       Filamentois     N.Biochemicus       U.Biochemicus     Pigefoawtb IIV:       Consultace     -       Consultace     -       Consultace     -       Compace     -       VITEK 2 Compact System       ODDY/lococcus     saprophyticus	IV. Colony Morphology	di secolo	C SYL I		Lobate			
Filamentous       fila     V. Biodematry Seactions     Peer DawUp Bry Logical       galar     cotolase     +     Peer DawUp Bry Logical       herry     coogulase     -     DATE       id     coogulase     -     DATE       id     coogulase     -     DATE	Filamentous           for         tilamentous         Filamentous           for         tilamentous         endremating           palar         x         coopulate         a         matrix           her         coopulate         a         no         anti-           her         coopulate         a         anti-         anti-           her         anti-         anti-         anti-         anti-         a	1. Color slight yellow tin	IT YEL			Feathery			
Mar.         W. Biochemistry Reactions         Methods (Consistence)         Methods	Alternation         W. Biochemistry Reactions         Methods (W. Biochemistry Reactions)           Alternation         x         Cataloge         +         Negrocketb (W. Biochemistry)           Barling         x         Cataloge         +         Negrocketb (W. Biochemistry)           Barling         x         Cataloge         +         Negrocketb (W. Biochemistry)           Barling         x         Cataloge         -         Negrocketb (W. Biochemistry)           Side         x         X         X         Negrocketb (W. Biochemistry)           Side         x         X         X         Negrocketb (W. Biochemistry)           TIFELATION METHOD:         X         X         X         X           TIFELATION METHOD:         X         X         X         X					Filamentous			1 1 1
* PERFORMED IN: Control of the Date:	* PERFORMED BY: ATE: REVIEWED BY: DATE: DATE:	2. Form			V. Biochem	istry Reactions	- Inter		Mula.
ATE: DATE: D	ATE: DATE: D	Circular	×		Catola	8		PERFORMED BY	×.,
REVIEWED BY	REVIEWED BY	Irregular			Coogul	05e		DATE	
REVIEWED BY	REVIEWED BY	Feathery							
DATE	DATE:	Punctiferm						REVIEWED BY	
IDENTIFICATION METHOD: VITEK 2 COMpact System	IDENTIFICATION METHOD: VITEK 2 Compact System IDENTIFIED As: 98% Staphylococcus saprophyticus	Rhizoid			and a second second			DATE	
	IDENTIFIED AS: 98% Staphylococcus saprophyticus	IDENTIFICATION A	NETHOD	VITE	K 2 Compo	ict System			

bioMerieux Customer: 06365 System #: Laboratory Report

Printed Jul 3, 2009 09:14 GMT-04:00 Printed by: gvelazoo Report Version: 2 of 2

#### Isolate Group: 10332-6 (1)-2

Bionumber: 070000017270231 Selected Organism: Staphylococcus saprophyticus

Allefipe or-1309 1/9 Comments:

			-		_	
Identification	Card: (	3P	Lot Number:	242135240	Expires:	Aug 27, 2010 12:00 GMT-04:00
Information		lul 1, 2009-20:02 GMT-04:00	Status:	Final	Analysis Time:	5.00 hours
Coloria di Conseilore	98% Probability	¥	Staphyloco	occus saprop	hyticus	
Selected Organism	Bionumber: 0	70000017270231			Confidence:	Excellent identification
SRF Organism		Ma 1	lin			
Analysis Organisms and	lests to Separat	e:	alge	20	7	
Analysis Messages:			- /		-03-0	7
Contraindicating Typical I	Biopattern(s)					-
Stephylococcus seprophylicus	AGLU(22),					

2	AMY	<u> </u>	4	PIPLC	-	5	dXYL	-	8	ADH1	+	9	BGAL	+	11	AGLU	-
13	APPA	-	14	COEX	-	15	AspA	t	16	BGAR	÷	17	AMAN	-	19	PHOS	T.
20	LeuA	-	23	ProA		24	BGUR		25	AGAL		26	PyrA	-	27	BGUR	-
28	AlaA	-	29	TynA	-	30	dSOR	-	31	URE	+	32	POLYB	-	37	dGAL	-
38	dRIB		39	ILATK	+	42	LAC	+	44	NAG	ŀ	45	dMAL.	+	46	BACI	-
47	NOVO	•	50	NC6.5	+	52	dMAN	+	53	dMNE		54	MBdG		56	PUL	-
57	dRAF	-	58	0129R	+	59	SAL		60	SAC	+	62	dTRE	+	63	ADH28	-
64	OPTO																T

07.03-09

Action Reviewed by: Name (User ID) (Gjorjmar Velazco (gvelazco)

m.

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Date/Time Jul 3, 2009_09:13 GMT-04:00

Comment

VITEK 2 Systems Versigh: 03.01 MIC Interpretation Guideline: AES Parameter Set Name:

Therapeutic Interpretation Guideline: AES Parameter Last Modified:

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J		Z	1	0	SOP No. 300-002
5 C	5	- 1	seire	loc.	MLC Control Number: 164
		MECROBIAL ISOLAT	E CHAR	ACTERIZATION	
~	~	Colony No.	100	m	
14.14		3. Elevation	+		we: Waleska Diaz
	$\vdash$	Flat		and a second sec	
-	-	Umbonate		ISOLATE NUM	NEN: 10332-6(1)2
	10	Crateriform			
	-	Spreading			
	-	Raised to slightly convex	×	62 YHANTS.	"STAPHY" shunch of gropes: "SAPROS-potrial:
	-	Convex		t=_NOLAHda	kent
		Pulvinate		YHOOMAS"	"SAPROPHYTZCUS"=growing an dead hissues
F	+	18		Lisolated acn	Lisolated accassionally from the skin of humans and
+	-		×	other momme	other manunals and their products. Appears to be the
	-	Dull		predaminant	predominant staphylococcal species in ocute univery
		Granular		tract infects	tract intections of young adult women. Optimum
	-	Reuch		femperature	26-32.0
1	┝	Butyrous		17 5 6/50 050	IT is also use in Europe, in the fermentation process for
-	-	B		FRONDE CREWEND	haver development and hed color envancement or mean
		Entire	×	and room over	und mean products, and for the burrer paper of unspected
		Undukate		rer menied o	y southers.
		Lobate			
-		Feathery			
	-	Filamentous			al 1 0-
	V,	Biachemistry Reactions			CIAIN Par
		Catalase		PERFORMED B	
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1	12	A STATES TO STATES		8	TE: 07-09-09
EIN	EK 2	Compact System			~
phylo	COCCL	s saprophyticus			
		virrek 2	13 Catustrial 3 Catustrial 3 Cataloge 5 Edge 5 Edge 6 Soft 15 Edge 6 Soft 15 Edge 6 Soft 15 Edge 15	MICROBIAL ISOLATE CHAR MICROBIAL ISOLATE CHAR 2 3 Colory No. 1 2 2 3 Colory No. 1 2 2 3 Colory No. 1 2 2 3 Contertient 1 1 2 2 2 3 Contertient 1 2 2 2 3 Contertient 1 2 2 2 4 Serection 2 2 2 5 Edge 2 5 Edge 2 2 2 5 Edge 2 5 Edge 2 2 2 5 Edge 2 5 Edge 2 2 2 6 Contert 8 2 2 7 7 1 1 2 2 Compact System Phylococcus soprophyticus	

Appendix 6. Analytical Report after Mitigation Process (#10846 to #10849)

INDUSTRIAL PO BOX 570 BAYANCH PR 00960 TEL 181-482 0600 LABORATORY Ent Cardon Content FDA No. 30033383013

CLENDO CONTROL NO. 10846

CUSTOMER SAMPLE ANALYSIS REPORT

	Page 1 of 2
A. CUSTOMER NAME	WALESKA DIAZ
B. CLIENT NUMBER	0590
C. ADDRESS	URB. VILLA VICTORIA CAGUAS P.R. 00725
D. TELEPHONE	787-429-6644
E. FAX	N/A
F. CONTACT PERSON	WALESKA DIAZ
G. DATE /TINE OF SAMPLE RECEIPT	10-06-09 / 10:00
H. DATE / TIME OF SAMPLING	10-06-09 / 15:00
. QUANTITY OF SAMPLES	24
J. DESCRIPTION OF SAMPLES	ENVIROSWABS
K. SAMPLES COLLECTOR NAME	SAMUEL SERRANO
L. DATE/TIME ANALYSIS BEGINS:	10-06-09 / 15:30
M. RESULTS	

PROCEDURE PERFORMED AS PER:

SOP NO.100-023 PROCEDURE FOR ENVIRONMENTAL AIR SAMPLING USING SAS SUPER 100 SURFACE AIR SYSTEM

REFERENCES:

"MANUAL OF ENVIRONMENTAL MICROBIOLOGY" 2*1 EDITION 2002

	ENVIROS	WABS SAMPLING	and the second second
SAMPLE	BACTERIA (2" DAY COUNT)	YEAST/MOLD (7" DAY COURT)	IDENTIFICATION
10846-1	4	0	N/A
MENS BATHROOM	COLONIES/50cm ²	COLONIES/50cm ²	
10846-2	7	0	N/A
GIRLS BATHROOM	COLONIES/50cm ²	COLONIES/50cm ²	
10846-3	29	0	NA
RIGHT SIDE HALLWAY	COLONIES/50cm ²	COLONIES/50cm ²	
10848-4	25	0	NA
LEFT SIDE HALLWAY	COLONIES/50cm ²	COLONIES/50cm ²	
10846-5	1	0	N/A
WOODEN CUBICLE RIGHT	COLONIES/50cm ²	COLONIES/50cm ²	
10848-6	3	0	N/A
WOODEN CUBICLE LEFT	COLONIES/50cm ²	COLONIES/50cm ²	
10846-7	12	1	NíA
FRONT FLOOR (A) RIGHT	COLONIES/50cm ²	COLONIES/50cm ²	

CLENDO INDUSTRIAL PO BOX 573 BAYAACON PR 60080 TEL 757-629-5933 FDA No. 30033383013 LABORATORY FAX 787-686-3148 Errat Concentralignet.rel CUSTOMER SAMPLE ANALYSIS REPORT

CLENDO CONTROL NO. 10846

10846-8	36	0	N/A
FRONT FLOOR (B) LEFT	COLONIES/50cm ²	COLONIES/50cm ²	
10846-9	37	0	N/A
FRONT RUG (A)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-10	183	0	. N/A
FRONT RUG (B)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-11	36	1	NiA
FRONT RUG (C)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-12	146	0	NíA
FRONT RUG (D)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-13	205	0	N/A
BACK RUG (A)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-14	13	0	N/A
BACK RUG (B)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-15	20	1	N/A.
BACK RUG (C)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-16	11	1	N/A.
BACK RUG (D)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-17	1	1	NA
FLOOR MATS (A)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-18	1	2	N/A
FLOOR MATS (B)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-19	189	1	N/A
FLOOR MATS (C)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-20	23	0	N/A
FLOOR MATS (D)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-21	1	0	NIA
FOAM PIT (A)	COLONIES/50cm ²	COLONIES/50cm ²	

INDUSTRIAL PO BOX 578 DAYANON PR 00000 TEL 787-630-6600 LABORATORY Evait devision@prtunet FDA No. 30033383013

CLENDO CONTROL NO. 10846

CUSTOMER SAMPLE ANALYSIS REPORT

Page 1 of 2

10846-22	0	0	NIA
FOAM PIT (B)	COLONIES/50cm ²	COLONIES/50cm ²	
10846-23	4	0	NIA
RINGS A (BABY GYM)	COLONIE5/50cm ²	COLONIES/50cm ²	
10846-24	4	0	NIA
RING B	COLONIES/50cm ²	COLONIES/50cm ²	
N. COMMENTS			New Street Street

PRINCIPLE OF THE SURFACE AIR SYSTEM (SAS) SOURCE TO: ARIES ASPIRATED FOR VARIABLE TIME (IN THIS STUDY-1,000L FOR CLEAN ROOMSIMINUTES) THROUGH A COVER WHICH HAVE BEEN MACHINED WITH A SERIES OF SMALL HOLES OF A SPECIAL DESIGN. THE RESULTING LAMINAR AIR FLOW IS DEIRECTED ONTO THE AGAR SURFACE OF A "CONTACT PLATE" CONTAINING MEDIUM CONSISTENT WITH THE MICROBIOLOGICAL EXAMINATION TO BE PERFORMED. WHEN THE PRESET SAMPLING CYCLE IS COMMULTED, THE PLATE IS REMOVED AND INCUBATED. THE ORGANISMS ARE THEN VISIBLE TO THE NAKED EYE AND CAN BE COUNTED FOR AN ASSESSMENT OF THE LEVEL OF CONTAMINATION.

> 50 CFU / M³ OR 1.42 CFU / FT³ OF YEASTS / MOLDS OR MORE IN THE ENVIRONMENT IS CONSIDERED A SIGNIFICATIVE RISK FACTOR FOR RESPIRATORY PROBLEMS OR COMPLICATIONS, EYES AND SKIN IRRITATIONS.

> > *All the samples was counting at 1.0ml

PERFORMED BY: GLORINAN VOLAZOO - LABORATORY AMALYSY	Ulles .	DATE 10-19-09
Reviewed BY: Ligzette M. Rivera, B.S.N.T Laboratory Director (Lig # 2015)		DATE 10-19-09
Dezerre in History Bos N 119 Canona for Distance (Changes and Changes)	-612	6 10 Mar 10 4

INDUSTRIAL INDUSTRIAL LABORATORY FAX 787-939 Email: clendo	EAVAMON PR 00080 6000 FDA No 7149 FDA No	o. 30033383013	CLENDO CONTROL NO. 10847
LADORATONT Enall dendo		PLE ANALYSIS REPORT	Page 1 of 2
10847-8 VAULT B	9 COLONIES/50cm ²	0 COLONIES/50cm ²	N/A.
10847-9 FOUNTAIN	0 COLONIES/50cm ²	1 COLONIES/50cm ²	N/A
10847-10 BG (CONFERENCE ROOM)	7 COLONIES/50cm ²	4 COLONIES/50cm ²	N/A
10847-11 BG (ROSA OFFICE)	1 COLONIES/50cm ²	0 COLONJES/50cm ²	NA
10847-12 NEGATIVE CONTROL	0 COLONIES/50cm ²	0 COLONIES/50cm ²	N/A
STUDY=1,000L FOR CLE SERIES OF SMALL HOLES AGAR SURFACE OF A "C EXAMINATION TO BE F	ACE AIR SYSTEM (SAS) SUPI TAN RODMS/AMINUTES) THRO OF A SPECIAL DESIGN. THE F DONTACT PLATE' CONTAINING VERFORMED. WHEN THE PRE ED. THE CRGANISMS ARE TH FOR AN ASSESSMENT OF TH OR 1.42 CFU / FT ³ OF YEASTS	UGH A COVER WHICH HAVE SESULTING LAMINAR AIR FLO 3 MEDIUM CONSISTENT WITH SET SAMPLING CYCLE IS CON IEN VISIBLE TO THE NAKED E E LEVEL OF CONTAMINATION	BEEN MACHINED WITH A W IS DEIRECTED ONTO T I THE MICROBICLOGICAL WPLETED, THE PLATE IS YE AND CAN BE COUNTE I.
	ATORY PROBLEMS OR COMP		IRRITATIONS.

FDA No. 30033383013

CLENDO CONTROL NO. 10848

INDUSTRIAL PO BCX 578 BAVAMON PR 00080 TEL 787-630-8903 LABORATORY Press Provide Control of Control

CUSTOMER SAMPLE ANALYSIS REPORT

Contraction of the second states of the second stat							
A. CUSTONER NAME	1.0.1. T	Sec.	W	ALESKA DIAZ			
B. CLIENT NUMBER			0590				
C. ADDRESS			URB. VILLA VICTORIA CAGUAS P.R. 00725				
D. TELEPHONE				787-429-6644			
E FAX			N/A				
F. CONTACT PERSON		236		ALESKA DIAZ			
G. DATE /TIME OF SAMPLE RECEIPT		2010		0-06-09 / 15:00			
H. DATE / TIME OF SAMPLING		2.0942	10-06-09 / 10:00				
QUANTITY OF SAMPLE		1000		24			
J. DESCRIPTION OF SAME K. SAMPLES COLLECTOR	PLUS	5-13-		SAS-PLATES			
L. DATE/TIME ANALYSIS I		The second se		MUEL SERRANO			
M. RESULTS	ROIND:	Contract of Contract of	SUBARANCA STA	0-06-09 / 15:30			
SOP NO. 100-023 PROCES SYSTEM REFERENCES: "MANUAL OF ENVIRONI				SAS SUPER 100 SURFACE AIR			
	SAS YEAST/MOLD A	IR SAMPLING	RESULTS (6	DAY COUNT)			
SAMPLE	COUNT	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1 State States				
Series CE	(Pr=Corrected Count)	CFU/m	CFUM ²	IDENTIFICATION			
10848-1 109	(Pr=Corrected	135 CFUIM ²	CFUM ³ 3.82 CFU/FT ⁰	IDENTIFICATION			
10848-1	(Pr=Corrected Count) 27	135	3.82				
10848-1 109 10848-2	(Pr=Corrected Count) 27 CFU 37	135 CFU/M ² 185	3.82 CFU/FT ⁹ 5.29	NA			
10848-1 109 10848-2 34 10848-3	(Pr=Corrected Count) 27 CFU 37 CFU 25	135 CFU/M ³ 185 CFU/M ³ 125	3.82 CFU/FT ⁹ 5.29 CFL//FT ⁹ 3.54	N/A N/A			
10848-1 109 10848-2 34 10848-3 100 10848-4	(Pr=Corrected Count)           27 CFU           37 CFU           25 CFU           40	135 CFUM ³ 185 CFUM ³ 125 CFUM ³ 200	3.82 CFU/FT ⁰ 5.29 CFU/FT ⁰ 3.54 CFU/FT ⁵ 5.66	N/A N/A N/A			
10848-1 109 10848-2 34 10848-3 100 10848-4 85 10848-5	(Pr=Corrected Count)           27 CFU           37 CFU           25 CFU           40 CFU           17	135 CFUM ³ 185 CFUM ³ 125 CFUM ³ 200 CFUM ³ 85	3.82 CFUVFT ⁹ 5.29 CFUVFT ³ 3.54 CFUVFT ³ 5.68 CFUVFT ³ 2.41	N/A N/A N/A N/A			

INDUSTRIAL PO BCX 576 BAVAMON PR 00000 TEL 377 400 4803 LABORATORY FACTOR FILM

CLENDO CONTROL NO. 10848

				and the second s
10848-8	10	50	1.41	N/A.
29	CFU	CFUM ³	CFU/FT ³	
10848-9	14	70	1.98	N/A
102	CFU	CFUM ³	CFWFT ³	
10848-10	12	60	1.70	N/A
43	CFU	CFUM ³	CFUNFT ⁸	
10848-11	25	125	3.54	N/A
105	CFU	CFU/M ³	CFU/FT ³	
10848-12	29	145	4.11	NIA
26	CFU	CFU/M ³	CFU/FT ³	
10848-13	14	70	1.98	N/A
16	CFU	CFUIM ³	CFU/FT ^a	
10848-14	31	155	4.39	N/A
52	CFU	CFU/M ³	CFU/FT ³	
10848-15	22	110	3.11	N/A
90	CFU	CFU/M ³	CFWFT ³	
10848-16	16	80	2.26	NA
12	CFU	CFUM ³	CFWFT ⁰	
10848-17	17	85	2.41	WA
64	CFU	CFUM ³	CFWFT ³	
10848-18	29	145	4.11	N/A.
88	CFU	CFU/M ^o	CFUNFT ⁸	
10848-19	12	60	1.70	N/A
14	CFU	CFU/M ³	CFU/FT ³	
10848-20	14	70	1.98	NIA
47	CFU	CFU/M ^a	CFWFT ³	
10848-21	13	65	1.84	N/A
125	CFU	CFUM ³	CFU/FT ^a	

CLENDO CONTROL NO. 10848

10848-22	11	55	1.56	N/A.
37	CFU	CFUM ³	CFU/FT ⁹	
10848-23	8	40	1.13	NA
132	CFU	CFUM ³	CFWFT ^o	
10848-24	24	120	3.40	NA
68	CFU	CFUM	CFWFT ³	
and a set of the set	SAS BACTER	RIA AIR SAN	PLING RES	SULTS
SAMPLE	TOTAL	ICFU'M ⁴	Real Street	IDENTIFICATION
10848-1	4	20	0.57	N/A.
109	CFU	CFUM#	CFUVFT ⁸	
10848-2	6	30	0.85	N/A.
34	CFU	CFUM ³	CFW/FT ⁵	
10848-3	6	30	0.85	N/A.
100	CFU	CFUM ³	CFUNFT ⁸	
10848-4	13	65	1.84	N/A.
85	CFU	CFUM ³	CFU/FT ³	
10848-5	11	56	1.56	N/A.
124	CFU	CFU/M ³	CFU/FT ³	
10848-6	14	70	1.98	NIA
114	CFU	CFU/M ³	CFU/FT ³	
10848-7	14	70	1.98	NIA
127	CFU	CFU/M ³	CFU/FT ^a	
10848-8	15	75	2.12	NIA
29	CFU	CFU/M ³	CFWFT ^a	
10848-9	14	70	1.98	N/A
102	CFU	CFU/M ³	CFU/FT ³	
10848-10	17	85	2.41	N/A.
43	CFU	CFU/M ³	CFUNFT ³	

INDUSTRIAL PO BOX STO BAYAMON PR 00080 TEL 781420 8800 FDA No. 30033383013 IABORATORY PART 1669-119 FDA No. 30033383013 Email: denidated@ptc.ret CUSTOMER SAMPLE ANALYSIS REPORT

CLENDO CONTROL NO. 10848

			_	
10848-11	16	80	2.26	N/A
105	CFU	CFUM ³	CFWFT ⁰	
10848-12	13	65	1.84	N/A
26	CFU	CFUM ^a	CFWFT [®]	
10848-13	6	30	0.85	N/A
16	CFU	CFUM ⁹	CFWFT ⁵	
10848-14	12	60	1.70	N/A.
52	CFU	CFUM ³	CFUNFT ⁵	
10848-15	11	55	1.56	N/A.
90	CFU	CFUM ³	CFU/FT ³	
10848-16	17	85	2.41	NIA
12	CFU	CFUM ³	CFU/FT ³	
10848-17	17	85	2.41	NIA
64	CFU	CFU/M ³	CFU/FT ^a	
10848-18	25	125	3.54	NIA
88	CFU	CFUIM ⁹	CFU/FT ^a	
10848-19	14	70	1.98	NIA
14	CFU	CFUIM ³	CFU/FT ³	
10848-20	20	100	2.83	NA
47	CFU	CFU/M ³	CFWFT ^a	
10848-21	5	25	0.71	NA
125	CFU	CFUM ³	CFUNFT ³	
10848-22	12	60	1.70	N/A
37	CFU	CFUM ³	CFU/FT ³	
10848-23	7	35	0.99	NA
132	QFU	CFU/M ²	CFU/FT ³	
10848-24	9	45	1.27	NIA
68	CFU	CFU/M ⁸	CFU/FT ³	
N. COMMENTS				

CLENDO INDUSTRIAL LABORATORY	PO BOX 570 BAYAMON PR DDBED TUL 707-520-5500 FAX 787-999-749 Fmail: chrokelad/dbetc.net	FDA No. 3003338301	з [	CLENDO CONTRO 10848	a, No.
		OMER SAMPLE ANALYSI	S REPORT		
				Page 1 of	2
STUDY-1,000 SERIES OF SMAI AGAR SURPA EXAMINATIC REMOVED AND SI SI	0 CFU / M ³ OR 1.42 CFU / FT ³	UTES) THROUGH A COVER SIGN. THE RESULTING LAR CONTAINING MEDILM CON EN THE PRESET SAMPLING SIMS ARE THEN VISIBLE TO MENT OF THE LEVEL OF CO OF YEASTS / MOLDS OR M ERED A SIGNIFICATIVE RISI	WHICH HAV INAR AIR FU SISTENT WI CYCLE IS C THE NAKED INTAMINATION ORE IN THE K FACTOR	E BEEN MACHINED V CWI IS DEIRECTED C TH THE MICROBIOLO OMPLETED, THE PLA EYE AND CAN BE CON. ENVIRONMENT	VITH A ONTO THE IGICAL ITE IS
PERFORMED BY: GLORINAR VELAZOD -	LABORATORY ANALYET	M	492	DATE	10-19-09
REVIEWED BY: LIZZETTE M. RAEKA,	B.S.M.T LASORATORY DESCTOR	(LAC # 2015)	Olu-	DATE	10-19-09

ţ

TEL 787-620-												
A. CUSTOMER NAME WALESKA DIAZ												
	B. CLIENT NUMBER				0590							
C. ADDRESS	U	URB. VILLA VICTORIA CAGUAS P.R. 00725										
D. TELEPHONE		787-429-6644										
E. FAX		N/A										
F. CONTACT PERSON		WALESKA DIAZ										
G. DATE /TIME OF SAMPLE RE	a contra	10-06-09 / 15:00										
1. DATET TIME OF SAMPLING	H. DATE / TIME OF SAMPLING I. QUANTITY OF SAMPLES J. DESCRIPTION OF SAMPLES			<u>10-06-09 / 10:00</u> 8								
J DESCRIPTION OF SAMPLES	s		SAS-PLATES									
K. SAMPLES COLLECTOR NA	ME	2020 Miles Million Control Million Million	SAS-FLATES SAMUEL SERRANO									
K. SAMPLES COLLECTOR NAL L. DATE/TIME ANALYSIS BEG		1	0-06-09/	15:30								
M. RESULTS		says diote	e anto alter a comissione a									
REFERENCES: "MANUAL OF ENVIRONMENTAL MICROBIOLOGY" 2 nd EDITION 2002 SAS YEAST/MOLD AIR SAMPLING RESULTS (5 ^{1H} DAY COUNT) TOTAL												
SAMPLE	COUNT (Pr=Corrected Count)	CFU/m ³	CFU/h³		IDENTIFICATION							
10849-1 17	13 CFU	65 CFU/M ³	1.84 CFU/FT ³		N/A							
10849-2 6	10 CFU	50 CFU/M ³	1.42 CFU/FT ³	N/A								
10849-3 75	0 CFU	0 CFU/M ³	0 CFU/FT ³	N/A								
10849-4 38	16 CFU	80 CFU/M ³	2.26 CFU/FT ³	N/A								
10849-5 61	26 CFU	130 CFU/M ³	3.68 CFU/FT ³	N/A								
10849-6 1	38 CFU	190 CFU/M ³	5.38 CFU/FT ³		N/A							
10849-7 BACKGROUND EXTERIOR	53 CFU	265 CFU/M ³	7.50 CFU/FT ³		N/A							

ABORATORY PO BOX 579 8 TEL 787-620-1 FAX 787-999- Email: clendoi	FDA No. 30	033383013	CLENDO CONTROL NO. 10849								
Email: clendo:		NER SAMPLE	ANALYSIS RE	PORT Page 1 of 2							
10849-8	17	85	2.41	N/A							
BACKGROUND OFICINA	CFU	CFU/M ³	CFU/FT ³								
ISAS BACTERIA AIR SAMPLING RESULTS											
SAMPLE	TOTAL, COUNT (Pr=Corrected, Count)	CFU/m ³	CFU/R3	IDENTIFICATION							
10849-1	5	25	0.70	N/A							
17	CFU	CFU/M ³	CFU/FT ³								
10849-2	20	100	2.83	N/A							
6	CFU	CFU/M ³	CFU/FT ³								
10849-3	12	60	1.70	N/A							
75	CFU	CFU/M ³	CFU/FT ³								
10849-4	2	10	0.28	N/A							
38	CFU	CFU/M ³	CFU/FT ³								
10849-5	10	50	1.42	N/A							
61	CFU	CFU/M ³	CFU/FT ³								
10849-6	27	135	3.82	N/A							
1	CFU	CFU/M ³	CFU/FT ³								
10849-7	49	245	6.94	N/A							
BACKGROUND EXTERIOR	CFU	CFU/M ³	CFU/FT ³								
10849-8	28	140	3.96	N/A							
BACKGROUND OFICINA	CFU	CFU/M ³	CFU/FT ³								
I. COMMENTS											
STUDY=1,000L FOR CLEAN OF SMALL HOLES OF A SI SURFACE OF A 'CONTACT I TO BE PERFORMED. W INCUBATED. THE OR	ROOMS/4MINUTES) PECIAL DESIGN, TH PLATE [®] CONTAINING (HEN THE PRESET S (GANISMS ARE THEI ASSESSMENT OR 1.42 CFU / FT ³ O	) THROUGH A C IE RESULTING 3 MEDIUM CON SAMPLING CYC N VISIBLE TO T OF THE LEVEL IF YEASTS / MC	COVER WHICH H LAMINAR AIR FI SISTENT WITH LE IS COMPLET THE NAKED EYE OF CONTAMIN	IN THE ENVIRONMENT							
FOR RESPIR				ND SKIN IRRITATIONS.							
ERFORMED BY:	ANALYST		Stuk	DATE 10-19-09							
LORIMAR VELAZCO - LABORATORY EVIEWED BY:	or provide the Party of the local division o										

Appendix 7. Cleaning Program for Caguas Gymnastic Club



Programa de limpieza para el área de entrenamiento en el Club Gimnástico Criollo								
Area	Lunes	Martes	Miércoles	Jueves	Viernes			
Baños Niños								
Baños Niñas								
Fuente								
Matress Baby Gym								
Barras Paralelas Baby Gym								
Cubo Para Piernas								
Anillas								
Fosa								
Trampolín								
Alfombra Posterior								
Barras Asimétricas								
Barras Paralelas								
Vigas								
Caballo con Arzones								
Alfombra Frontal								
Area de Salto								
Matress								
Envases Blancos								
Piso								
Cubículos de Madera								

*Barrer las áreas de mayor tránsito (piso área frontal, alrededor de la fosa y la alfombra posterior).
*Se utilizará paño húmedo con una solución de Microban para limpiar los equipos de entrenamiento.
*Todo el piso debe ser limpiado en húmedo con una solución de Microban para evitar levantamiento de polvo.
*Entrenadores serán responsables de que finalizado el entrenamiento cada atleta se lleve sus pertenencias.