



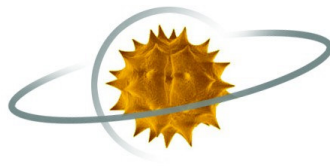
BACTERIA SCREEN CHECK – SAMPLE LAB REPORT

PRESENTED BY:

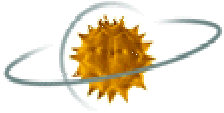


www.edlab.org
1-800-422-7873 Ext. 301

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EDL
Environmental Diagnostics Laboratory



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THE IEQ REVIEW

Home of the:
**Indoor Air Quality
Screen Test Kit
(IAQ-STK)**



EMLAP #102795
ISO/IEC 17025 Compliant



April 11, 2008

Jane Example
Ms. Jane Example Residence
Example Residence

Re: Work Authorization # **00099-001000**

Dear Jane Example,

We appreciate the opportunity to provide you with our professional indoor environmental laboratory services. The following environmental assays were performed on the samples submitted by you:

- **Bacteria Screen Check**

Please call me at 1-800-422-7873, ext. 404, should you have any questions. We look forward in assisting you to create a healthy indoor environment for you and your organization.

Sincerely,

Dr. Rajiv Sahay
EDL Laboratory Manager

Corporate Office

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E-mail: laboratory@pureaircontrols.com · Web Site: www.pureaircontrols.com



Laboratory Analysis Report Summary of Microbiological Assays




Client : **Jane Example**
 Jobsite : **Ms. Jane Example Residence**
 Location : **Example Residence**

PACS ID # : **00099**
 Work Order # : **001000**
 Project Date : **3/31/2008**
 Date Issued : **4/11/2008**

Zone	Test Site	Sample Type	Bacteria ¹	Fungi ¹
Bathroom	Top of Sink	Swab	36,000 CFU	N/A

¹ CFU = Colony Forming Units
 CFU/m³ = Colony Forming Units per cubic meter of air
 CFU/gm = Colony Forming Units per gram of sample
 CFU/ml = Colony Forming Units per milliliter of sample
 CFU/cm² = Colony Forming Units per square centimeter of sample
 N/A = Not Applicable
 BDL = Below Detection Limit

The results in this report apply only to the sample(s) specifically listed above and tested at Environmental Diagnostics Laboratory. Unless otherwise noted, samples were received in good condition. Laboratory prepared Quality Control (QC) samples are analyzed with the samples routinely; however, unless a blank (control) is received, the result for the control is not compared.

Quality Controlled By : 
 Approved By : 
 Rajiv R. Sahay, Ph.D.



Laboratory Analysis Report

Bacteria / Fungi

Identified From Culture



Client : **Jane Example**
Jobsite : **Ms. Jane Example Residence**
Location : **Example Residence**

PACS ID # : **00099**
Work Order # : **001000**
Project Date : **3/31/2008**
Date Issued : **4/11/2008**

Location of Test	Sample Information	Isolated Organisms			
		Identification	Raw Count	CFU	% of Total
Unit: 1	Field Sample #: 1	Bacteria			
Zone: Bathroom	Lab Sample #: 10010001	Microbacterium species	12	12,000	33.33 %
Test Site: Top of Sink	Sample Date: 4/1/2008	Staphylococcus aureus	10	10,000	27.78 %
Run #: 1	Sample Time: 12:00	Micrococcus luteus	9	9,000	25.00 %
Sample Type: Swab	Date Lab Rec'd.: 4/3/2008	Micrococcus lylae	5	5,000	13.89 %
	Date Analyzed: 4/11/2008	Total Bacteria	36	36,000	100.00 %
		Fungi			
		Total Fungi	N/A	N/A	-
	B:F Ratio : N/A	Total Microorganisms :	36	36,000	100.00 %

CFU = Colony Forming Units
CFU/gm = Colony Forming Units per gram of sample
CFU/ml = Colony Forming Units per milliliter of sample
CFU/cm² = Colony Forming Units per square centimeter of sample
BDL = Below Detectable Limit: **Detection Limit** = 1 CFU
N/A = Not Applicable

The results in this report apply only to the sample(s) specifically listed above and tested at Environmental Diagnostics Laboratory. Unless otherwise noted, samples were received in good condition. Laboratory prepared Quality Control (QC) samples are analyzed with the samples routinely; however, unless a blank (control) is received, the result for the control is not compared.

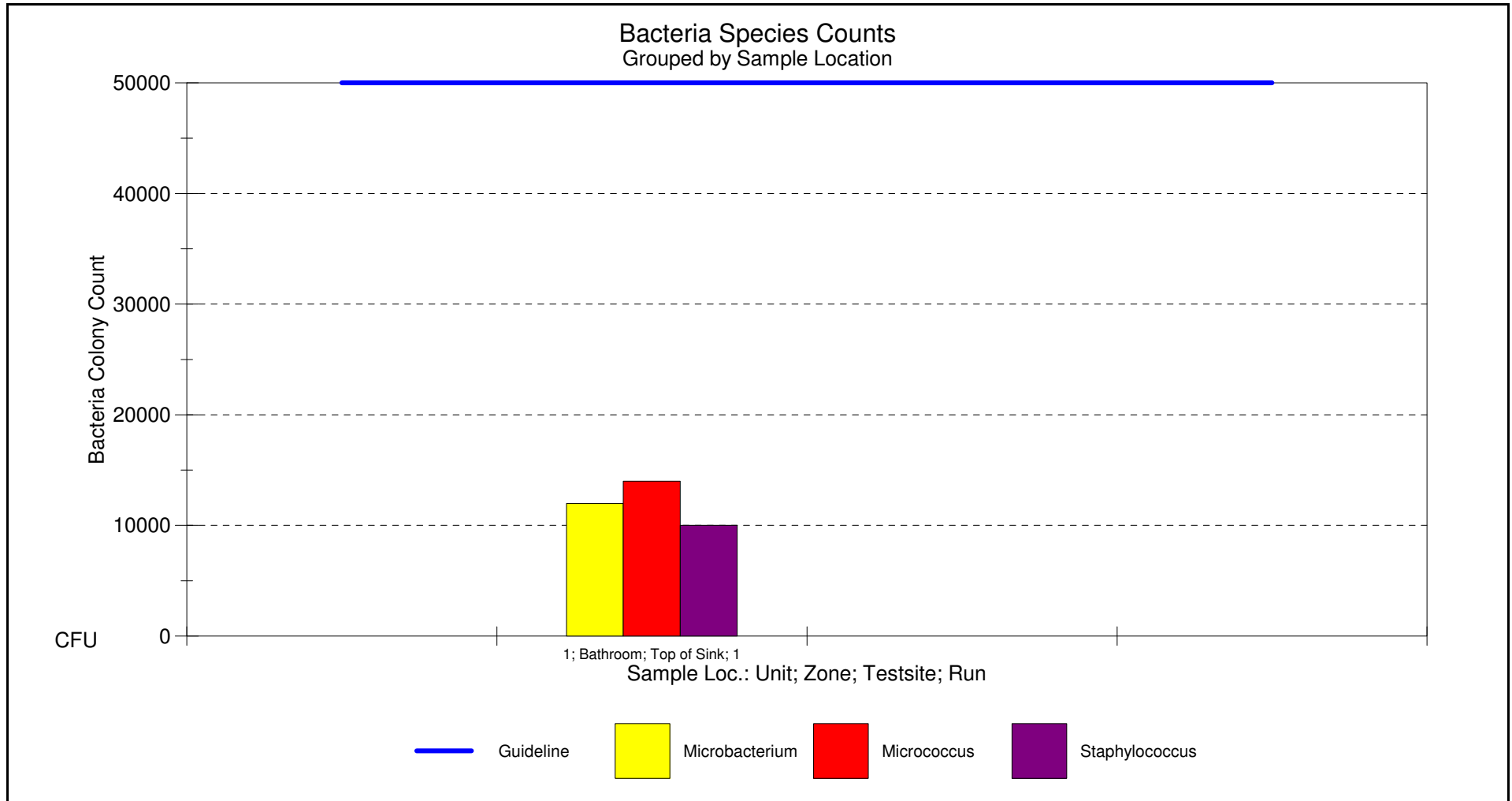
Quality Controlled By : 
Approved By : 
Rajiv R. Sahay, Ph.D.

Laboratory Analysis Chart Bacteria Identified From Bulk Culture



Client : **Jane Example**
 Jobsite : **Ms. Jane Example Residence**
 Location : **Example Residence**

PACS ID#: **00099**
 Work Order: **001000**
 Project Date: **3/31/2008**
 Date Issued: **4/11/2008**



Bacteria Identified from Environmental Specimens

Client : **Jane Example**
Jobsite : **Ms. Jane Example Residence**

PACS ID # : **00099**
Work Order # : **001000**

Microbacterium species

An aerobic, gram-positive bacillus that produces a creamish / yellowish pigmented colony. It has been isolated from soil and from clinical specimens. Rarely, it can be an opportunistic pathogen for humans.
Microbacterium species

Micrococcus luteus

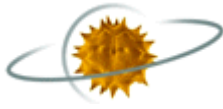
An aerobic, gram-positive or gram-variable coccus occurring in tetrads (groups of four) or irregular clusters. It produces a cream white, yellow, yellowish green, or orange colony. The primary habitat is mammalian skin. The majority of isolates are nonpathogenic, but some isolates may occasionally be opportunist pathogens.

Micrococcus lylae

An aerobic, gram-positive coccus occurring in tetrads (groups of four) and produces an unpigmented or a cream white colony. The primary habitat is mammalian skin. The majority of strains are nonpathogenic, but some strains may occasionally be opportunist pathogens.

Staphylococcus aureus

An aerobic gram-positive coccus that produces smooth colonies. Pigmentation of the colonies may range from gray, gray-white, yellow, yellow-orange or orange. It produces both free and bound coagulases and hemolysins (exotoxins). Some isolates produce an epidermolytic toxin that is responsible for the staphylococcal scalded skin syndrome. Some isolates produce endotoxins which when ingested are responsible for staphylococcal food poisoning. It can be part of the normal flora of the skin, skin glands, anterior nares, mucous membranes, gastrointestinal tract, and genital tract of humans, warm-blooded animals, and birds. It is an opportunistic pathogen causing a wide range of infections including: furuncles (boils), carbuncles, impetigo, epidermal necrolysis, osteomyelitis, meningitis, endocarditis, pneumonia, mastitis, bacteremia, enterocolitis, staphylococcal food poisoning and toxic shock syndrome.



EDLab
Environmental Diagnostics Laboratory
1-800-422-7873, Ext. 301



Client: Jane Example
Jobsite: Ms. Jane Example Residence
Location: Example Residence
PACS ID#: 00099
Work Order #: 001000

April 11, 2008

End of Report



Healthy Home / Building Considerations:

Background: The following Healthy Home / Building options should be considered:

<p>A. <u>Baseline Indoor Air Quality Study:</u></p>	<p>Depending on occupant complaints, perform an independent comprehensive Indoor Air Quality baseline study to determine specificity of indoor pollutants and possible cause / effect relationship of building occupants.</p>
<p>B. <u>Air Conveyance System (ACS):</u></p>	<p>Inspect for cleanliness. Depending on condition, environmentally clean and treat ACS.</p>
<p>C. <u>Air Handler Unit (AHU):</u></p>	<p>Inspect for cleanliness. Depending on condition, environmentally clean and treat AHU; reline with closed cell non-porous material.</p>
<p>D. <u>UV Light:</u></p>	<p>Inspect for application. Typical UV lights (germicidal lamps) mount in the ductwork system or air handling unit and have the ability to control harmful bacteria, mold, viruses, etc. Post cooling coil application is best. UV light should be used in conjunction with high MERV filtration and environmentally clean HVAC systems.</p>
<p>E. <u>AHU Air Filtration:</u></p>	<p>Depending upon present filtration, upgrade to highest ASHRAE standard Minimum Efficacy Reporting Value (MERV) rating available, while maintaining equipment static pressure requirements. A MERV rating of 16 is the highest.</p> <p>Quick Reference to Various Air Filter MERV Ratings:</p> <ul style="list-style-type: none"> • MERV 1 - MERV 4: Throw-Away Fiberglass Media less than 20% @ 3 - 10 microns • MERV 5: Pleated Media Air Filters 20 - 34.9% @ 3 - 10 microns • MERV 10: Pleated Media Air Filters 85% @ 3 - 10 microns • MERV 14: Pleated Media Air Filters 85% - 94.9% @ .3 - 1.0 microns • MERV 16: Pleated Media Air Filters at 95% @ .3 - 1.0 microns <p>Note: The average Particle Size Particulate Efficiency (PSE) rating varies from MERV 1 - 16.</p>
<p>F. <u>HEPA Vacuum Cleaner:</u></p>	<p>Review housekeeping protocols. Depending on present vacuum product, upgrade vacuum cleaner to HEPA fitted at 99.97% efficient at .3 microns.</p>
<p>G. <u>Polytac Prefilter at Return Grills:</u></p>	<p>Install filters to arrest large particulates prior to entering the Return Air Duct System.</p>
<p>H. <u>Unit Ventilation System (UVS):</u></p>	<p>UVS's are typically whole house air filtration and ventilators that circulate fresh air into the home every 2-4 hours, while removing potential stale air to the outside.</p>

NOTE: Any remedial activities should be accomplished using strict environmental remediation protocols and performed by a qualified professional.

Please contact at 1-800-422-7873 for further information.