

EDL
Environmental Diagnostics Laboratory



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Publisher of:
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:

- **Dust Mite 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 Dustmite Allergen Screen (RapidTest)



Client : **Mrs. 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**

Unit #	Zone	Test Site	Sample #	House Dust Mite µg/g
1	Bedroom	Carpet	10010003	Medium

BDL = Below Detection Limit (see below for Detection Limits of each Allergen)
QNS = Quantity Not Sufficient - Size of sample not sufficient to perform assay
N/A = Not Applicable
N/D = Not Done

Test Line: Exposure:
Low < 0.2 µg/gm dust
Medium 0.2-1.0 µg/gm dust
High > 1.0 µg/gm dust



Guidelines: The following guidelines for Dermatophagoides mite allergen levels in house dust have been proposed:^{1 2}
< 2 µg/gm dust Not sufficient to cause allergic symptoms
2-10 µg/gm dust Risk for sensitization and bronchial hyperactivity
> 10 µg/gm dust Risk for acute asthmatic attack

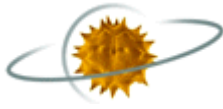
¹ Int Archs Appl Immun 1985; 77:163-165

² J. Allergy Clin Immunol 1989; 83:416-427

* This report furnishes information only and is not intended to be an interpretation of the results. Whether an individual suffers allergic symptoms or not depends not only on the level of allergens in his/her environment, but also, on his/her medical history and previous exposure.
* Allergen Analysis performed using the RapidTest for Dust Mite (ELISA) method by the Environmental Diagnostics Laboratory, PACS.

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.



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.