Indoor Allergen Analysis by ELISA

Prepared Exclusively For

Client Contact Name
Client Business Name
Address
State, Zipcode

Date Received: 10/2/2009
Date Reported: 10/3/2009
Project: Allergen Sample Report
EMSL Order: 37XXXXXX
Client ID

If you have any questions, please do not hesitate to contact us at (856)858-4800.

All samples were collected by and all sampling data was provided by the client. The results are valid only for those samples analyzed, and only for those samples collected in accordance with the appropriate methodology as determined by the client. The results herein do not denote or represent a medical or clinical diagnosis or conclusion. In the event that sample(s) were submitted in opened, used, non-sterile or otherwise adulterated condition, EMSL shall not be responsible or liable.

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Please visit our website at http://www.emsl.com for more information about our certifications and accreditations.
### Indoor Allergen Report

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>37XXXXXX-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Sample ID</td>
<td></td>
</tr>
<tr>
<td>Sample Location</td>
<td>Carpet in home</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Antigens</th>
<th>Detection Limits</th>
<th>Concentrations</th>
<th>Allergen Risk Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust Mites Allergen</td>
<td>Der f1</td>
<td>0.40</td>
<td>1.42 µg/g</td>
<td>Low</td>
</tr>
<tr>
<td>Dust Mites Allergen</td>
<td>Der p1</td>
<td>0.40</td>
<td>1.22 µg/g</td>
<td>Low</td>
</tr>
<tr>
<td>Cat Allergen</td>
<td>Fel d1</td>
<td>0.12</td>
<td>4.10 µg/g</td>
<td>Moderate</td>
</tr>
<tr>
<td>Dog Allergen</td>
<td>Can f1</td>
<td>0.80</td>
<td>5.10 µg/g</td>
<td>Moderate</td>
</tr>
<tr>
<td>Cockroach Allergen</td>
<td>Bla g1</td>
<td>0.60</td>
<td>10.00 U/g</td>
<td>High</td>
</tr>
</tbody>
</table>

Low: Not Sufficient to cause symptoms. Moderate: Risk for sensitization and bronchial hyperactivity. High: Risk for acute allergic asthma attack. µg/g: Micrograms per gram, U/g: Units per gram, ng/g: Nanogram per gram. N/A: Not Applicable. ND (None Detected): Indicates that the amount of allergen in the sample is below the detection limits.

†: Sufficient evidence is not available for risk levels

This report and guidelines furnish information only. Whether an individual suffers allergic symptoms or not depends on his/her medical history and previous exposure.

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## Guidelines to Interpretation

<table>
<thead>
<tr>
<th></th>
<th>µg/g</th>
<th>µg/m3</th>
<th>U/g</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Fel d1</td>
<td>Low</td>
<td>Mod</td>
<td>Mod</td>
</tr>
<tr>
<td>Can f1</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Der p1</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Der f1</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Mus m1</td>
<td>No sufficient information is available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Allergens

- **Rat n1**: <0.7 µg/m3 = Not associated with increased risk of asthma
- **Hev b5**: <0.6 ng/m3 = Not associated with increased risk of asthma
- **Hev b6.02**: <0.6 ng/m3 = Not associated with increased risk of asthma

<table>
<thead>
<tr>
<th></th>
<th>µg/m3</th>
<th>U/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bla g1 †</td>
<td>Low</td>
<td>Mod</td>
</tr>
<tr>
<td>Bla g2 †</td>
<td>Low</td>
<td>Mod</td>
</tr>
</tbody>
</table>

† Suggested levels. Not officially established.

### References

- *Journal of Allergy and Clinical Immunology* 1989; 83:416-427
- *Journal of Allergy and Clinical Immunology* 1995; 96:449-456
- *Environmental Health Perspectives* 2002; 110:419-425
- *Clinical and Experimental Allergy* 1998; 28(5):537-44

### Terminology

- **Allergen**: A substance which reacts with the body's immune system to produce an allergic reaction.
- **Antigen**: A substance, foreign to the body, which stimulates the production of antibodies by the immune system.
- **Bla g1**: *Blattella germanica* (Cockroach) allergen 1
- **Bla g2**: *Blattella germanica* (Cockroach) allergen 2
- **Can f1**: *Canis familiaris* (Dog) allergen 1
- **Der f1**: *Dermatophagoides farinae* (Dust Mites) allergen 1
- **Der p1**: *Dermatophagoides pteronyssinus* (Dust Mites) allergen 1
- **Detection Limits**: The smallest amount of a substance, in this case antigens, which can be measured.
- **Fel d1**: *Felis domesticus* (Cat) allergen 1
- **Hev b5**: *Hevea brasiliensis* (Latex) allergen 5
- **Hev b6.02**: *Hevea brasiliensis* (Latex) allergen 6.02
- **Mus m1**: *Mus musculus* (Mouse) allergen 1
- **Rat n1**: *Rattus norvegicus* (Rat) allergen 1
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