



## *EMSL Analytical, Inc.*

*107 Haddon Avenue  
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# 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.

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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.

EMSL Analytical (Westmont, NJ) is accredited by the American Industrial Hygiene Association (AIHA) in the EMLAP accreditation program for specified Field(s) of Testing as documented on the scope of accreditation.

Please visit our website at <http://www.emsl.com> for more information about our certifications and accreditations.



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Email: westmontmicro@emsl.com

Client Contact Name  
Client Business Name  
Address  
State, Zipcode

EMSL Reference: 37XXXXXX  
Date Collected: 10/1/2009  
Date Received: 10/2/2009  
Date Reported: 10/2/2009

## Indoor Allergen Report

Lab Sample ID 37XXXXXX-1

Client Sample ID

Sample Location Carpet in home

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

Dennis Kinney, Ph.D., Lab Manager  
Or Other Approved Signatory

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

		$\mu\text{g/g}$										
		<1	1	2	3	4	5	6	7	8	9	>10
<b>Allergens</b>	Fel d1	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	High	High
	Can f1	Low	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
	Der p1	Low	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
	Der f1	Low	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
	Mus m1	No sufficient information is available										
	$\mu\text{g/m}^3$											
	Rat n1	<0.7 $\mu\text{g} / \text{m}^3$ = Not associated with increased risk of asthma										
	Hev b5	<0.6 ng/m <sup>3</sup> = Not associated with increased risk of asthma										
	Hev b6.02	<0.6 ng/m <sup>3</sup> = Not associated with increased risk of asthma										
		U/g										
	Bla g1 †	Low	Mod	Mod	Mod	High	High	High	High	High	High	High
	Bla g2 †	Low	Mod	Mod	Mod	High	High	High	High	High	High	High

† Suggested levels. Not officially established.

Note: This report and guidelines furnish information only.

Whether an individual suffers allergic symptoms or not depends on his/her medical history and previous exposure.

## References

- Journal of Allergy and Clinical Immunology* 1989; 83:416-427
- Journal of Allergy and Clinical Immunology* 1995; 96:449-456
- The American review of respiratory disease* 1990; 141:361-367
- The American review of respiratory disease* 1993; 147:573-578
- 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	<i>Blattella germanica</i> (Cockroach) allergen 1
Bla g2	<i>Blattella germanica</i> (Cockroach) allergen 2
Can f1	<i>Canis familiaris</i> (Dog) allergen 1
Der f1	<i>Dermatophagoides farinae</i> (Dust Mites) allergen 1
Der p1	<i>Dermatophagoides pteronyssinus</i> (Dust Mites) allergen 1
Detection Limits	The smallest amount of a substance, in this case antigens, which can be measured.
Fel d1	<i>Felis domesticus</i> (Cat) allergen 1
Hev b5	<i>Hevea brasiliensis</i> (Latex) allergen 5
Hev b6.02	<i>Hevea brasiliensis</i> (Latex) allergen 6.02
Mus m1	<i>Mus musculus</i> (Mouse) allergen 1
Rat n1	<i>Rattus norvegicus</i> (Rat) allergen 1

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### Important Terms, Conditions, and Limitations

#### A. Sample Retention

Samples analyzed by EMSL will be retained for 60 days after analysis date. Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling will be returned to the client immediately. EMSL reserves the right to charge a sample disposal fee or return samples to the client.

#### B. Change Orders and Cancellation

All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

#### C. Warranty

EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

#### D. Limits of Liability

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder.

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### **E. Indemnification**

Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third party claim in connection with EMSL's services, the test result data or its use by client.

**THIS IS THE LAST PAGE OF THE REPORT**

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