



EMSL ANALYTICAL, INC.
 200 Route 130 North
 Cinnaminson, NJ 08077
 Telephone: (800)220-3675 FAX: (856)786-0262
cinmicrolab@emsl.com | <http://www.EMSL.com>

EMSL ORDER ID: 372021153
 EMSL CUSTOMER ID: SNSY42

Attention: Alan Sanders
 Sanders Systems LLC
 A 02532

Customer PO:
EMSL Project ID:
Project Name: Allergen _ 1

Phone: 508-863-7164
Email: alan@sanderssystems.net

Collected: 12/20/2020
Received: 12/23/2020
Analyzed: 01/04/2021
Reported: 01/08/2021



Sample Summary -Indoor Allergen Analysis by MARIA®

Lab Sample Number	Client Sample ID	Sample Location	Sample Type
372021153-0001	M044	LIVING ROOM	Bulk

Disclaimers

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.



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EMSL Sample #: 372021153-0001
Client ID: M044
Location: LIVING ROOM

Sample Type: Bulk
Sample Size: 48
Sample Units: mg

Analytical Results -Indoor Allergen Analysis by MARIA®

Test Parameter	Antigens	Detection Limits	Concentrations	Allergen Risk Levels
Dust Mites Allergen	Der f1	0.012 µg/g	ND µg/g	✓
Dust Mites Allergen	Der p1	0.024 µg/g	ND µg/g	✓
Cat Allergen	Fel d1	0.004 µg/g	ND µg/g	✓
Dog Allergen	Can f1	0.012 µg/g	74.93 µg/g	⊘
Cockroach Allergen	Bla g2	0.012 µg/g	ND µg/g	✓

Qualifier Definitions

*Sufficient evidence is not available for risk levels.
 †Insufficient dust submitted to determine risk levels. A minimum of 30 mg dust required for interpretive results.

Terminology

- MARIA®** Multiplex Array for Indoor Allergens
- 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 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** DL is the smallest amount of a substance, in this case antigens, which can be measured.
- Fel d1** *Felis domesticus* (Cat) allergen 1
- Mus m1** *Mus musculus* (Mouse) allergen 1
- ND** None detected, if any allergens are present they are below the detection limits.
- Rat n1** *Rattus norvegicus* (Rat) allergen 1

Allergen Risk Levels

- ⊘ **High**-Risk of acute asthmatic attack.
- ⚠ **Moderate**-Risk for sensitization and bronchial hyperactivity.
- ✓ **Low**-Not sufficient to cause symptoms or ND (None Detected); Indicates that the amount of allergen in the sample is below the detection limits.

Report Date
1/8/2021

Report Revision
R0

Revision Comments
Initial Report

Vincent Iuzzolino, M.S., Laboratory Director
 or other approved signatory



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Guidelines to Interpretation

Allergens	µg/g											
	<DL	<1	1	2	3	4	5	6	7	8	9	>10
Fel d1	ND	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High	High	High
Can f1	ND	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
Der p1	ND	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
Der f1	ND	Low	Low	Mod	Mod	Mod	Mod	Mod	Mod	Mod	Mod	High
Mus m1	ND	Low	Mod	Mod	Mod	High	High	High	High	High	High	High

µg/m3	
Rat n1	ND <0.7 µg /m3 = Not associated with increased risk of asthma

	µg/g											
	<DL	<0.08	0.08	0.09	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Bla g2 †	ND	Low	Mod	Mod	Mod	Mod	Mod	Mod	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
- Pediatric allergy-principles and practice. Mosby Inc 2003: 261-268.



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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

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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 report has been prepared by EMSL Analytical, Inc. at the request of and for the exclusive use of the client named in this report. Completely read the important terms, conditions, and limitations that apply to this report.