



# EMSL Analytical, Inc.

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## INDOOR ALLERGEN ANALYSIS by ELISA

**Sampling:** First sample was taken on 2/5/16 in a family room. Second sample taken on 3/1/16 in the same location.

**Discovery:** High level of Dust Mite Allergen (fl), Low level of Dust Mite Allergen (pl) and Moderate level of Cat Allergen.

**Trial:** A four week testing period of the BetterAir BA-008 probiotic purifier was conducted after initial sampling.

**Results:** Low level of Dust Mite Allergen (pl). All other Allergens were *not detected*.

**Before** BetterAir BA-008  
Implementation- SAMPLE 1

Lab Sample ID 371602131-1  
Sample Location Zone 1 Den Fam Rm

EMSL Reference: 371602131

Date Collected: 2/5/2016

Date Received: 2/8/2016

Date Reported: 2/22/2016

| Test Parameter      | Antigens | Detection Limits | Concentrations | Allergen Risk Levels |
|---------------------|----------|------------------|----------------|----------------------|
| Dust Mites Allergen | Der f1   | 0.40             | 12.77 µg/g     | High                 |
| Dust Mites Allergen | Der p1   | 0.40             | 0.71 µg/g      | Low                  |
| Cat Allergen        | Fel d1   | 0.12             | 1.31 µg/g      | Moderate             |
| Dog Allergen        | Can f1   | 0.40             | ND µg/g        | ND                   |
| Cockroach Allergen  | Bla g1   | 0.60             | ND U/g         | ND                   |

**After** BetterAir BA-008  
Implementation- SAMPLE 2

Lab Sample ID 371603709-1  
Sample Location Zone 1 Den Fam Rm

EMSL Reference: 371603709

Date Collected: 3/1/2016

Date Received: 3/2/2016

Date Reported: 3/16/2016

| Test Parameter      | Antigens | Detection Limits | Concentrations | Allergen Risk Levels |
|---------------------|----------|------------------|----------------|----------------------|
| Dust Mites Allergen | Der f1   | 0.40             | 0.63 µg/g      | Low                  |
| Dust Mites Allergen | Der p1   | 0.40             | ND µg/g        | ND                   |
| Cat Allergen        | Fel d1   | 0.12             | ND µg/g        | ND                   |
| Dog Allergen        | Can f1   | 0.40             | ND µg/g        | ND                   |
| Cockroach Allergen  | Bla g1   | 0.60             | ND U/g         | ND                   |

Farbod Nekouei M.S., Lab Manager  
Or Other Approved Signatory

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 (Cinnaminson, 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.

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



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**Sampling:** First sample taken on 2/5/16 in Master Bedroom. Second sample taken on 3/1/16 in the same location.

**Discovery:** Low level of Dust Mite Allergen (fl), Low level of Dust Mite Allergen (pl) and Moderate level of Cockroach Allergen.

**Trial:** A four week testing period of the BetterAir BA-008 probiotic purifier was conducted after initial sampling.

**Results:** Low level of Dust Mite Allergen (fl). All other Allergens were *not detected*.

**Before** BetterAir BA-008  
Implementation- SAMPLE 1

Lab Sample ID 371602131-2  
Sample Location Zone 2 Master Bedrm

EMSL Reference: 371602131

Date Collected: 2/5/2016

Date Received: 2/8/2016

Date Reported: 2/22/2016

| Test Parameter      | Antigens | Detection Limits | Concentrations   | Allergen Risk Levels |
|---------------------|----------|------------------|------------------|----------------------|
| Dust Mites Allergen | Der f1   | 0.40             | <b>0.74</b> µg/g | Low                  |
| Dust Mites Allergen | Der p1   | 0.40             | <b>0.47</b> µg/g | Low                  |
| Cat Allergen        | Fel d1   | 0.12             | ND µg/g          | ND                   |
| Dog Allergen        | Can f1   | 0.40             | ND µg/g          | ND                   |
| Cockroach Allergen  | Bla g1   | 0.60             | <b>1.07</b> U/g  | Moderate             |

**After** BetterAir BA-008  
Implementation- SAMPLE 2

Lab Sample ID 371603709-2  
Sample Location Zone 2 Master Bedrm

EMSL Reference: 371603709

Date Collected: 3/1/2016

Date Received: 3/2/2016

Date Reported: 3/16/2016

| Test Parameter      | Antigens | Detection Limits | Concentrations   | Allergen Risk Levels |
|---------------------|----------|------------------|------------------|----------------------|
| Dust Mites Allergen | Der f1   | 0.40             | <b>0.59</b> µg/g | Low                  |
| Dust Mites Allergen | Der p1   | 0.40             | ND µg/g          | ND                   |
| Cat Allergen        | Fel d1   | 0.12             | ND µg/g          | ND                   |
| Dog Allergen        | Can f1   | 0.40             | ND µg/g          | ND                   |
| Cockroach Allergen  | Bla g1   | 0.60             | ND U/g           | ND                   |

**Farbod Nekouei M.S., 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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