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Certificate of Allergen Analysis

Prepared for: Name of the Company
1234 Main Street
Hometown, CA 95455

Phone Number: (555) 222-3333
Fax Number: (555) 222-4444

Email Address: emailme@gmail.com

Test Location: Nursing Home
200 White Street
Hometown, CA 23445

Report Number: 092107-0234A
Collection Location: Child's Bedroom
Collection Date: September 17, 2007
Receive Date: September 19, 2007
Report Date: September 21, 2007

John D. Shane Ph.D., QA Manager

This report is not intended to be a statement of medical condition, recommendation or conclusion. Interpretive guidelines currently exist only for Dust Mite and Cat Allergens. These guidelines are listed at the end of this report. Individual susceptibility depends on the time spent exposed to a particular allergen and previous exposure history.

No specific individual risk thresholds have been established for most allergens. Sensitization to allergens is primarily, but not exclusively, respiratory.

Among sensitized individuals, allergic symptoms may be triggered over a range of allergen concentrations. Further information on allergen levels associated with increased risk of sensitization among atopic individuals can be found in the "Field Guide for the Determination of Biological Contaminants in Environmental Samples", edited by L-L. Huang, et al. 2005, American Industrial Hygiene Association, ISBN 1-931504-62-8.

Excellent websites for general information on allergens can be found at: 1) <http://www.niehs.nih.gov/health/topics>, 2) <http://www.aaaai.org>, 3) <http://allergies.about.com>, 4) <http://www.aanma.org>.

For more information please contact PRO-LAB[®] at 1-800-427-0550



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Report Date: September 21, 2007
Analyst: 22

Summary of Indoor Allergen Report

Location: Child's Bedroom
Sample Type: Allergen Cassette

Table with 4 columns: Allergen Concentration* (µg/g unless specifically stated), Allergen Name, Significance, and Threshold limits. Rows include Cat Allergen, Dust Mite, Mold Allergens, and Cockroach.

Allergen concentrations with no known threshold risk levels. Detectable levels indicate a risk of exposure

Table with 4 columns: Allergen Name, Concentration, Significance, and Threshold limits. Rows include Dog Allergen, Dust Mite, Mold Allergens, Rat Allergens, and Mouse Allergens.

*Micrograms per gram (µg/g); Units per gram (U/g); ND=none detected;
Low = a level below which an allergic reaction is likely.
Significant = a level above which an allergic reaction is more likely.
High = a level where there is a risk of acute asthmatic reaction.



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Glossary

Allergen: A substance that causes an allergic reaction.

Allergy: An acquired damaging response to a particular substance (sensitization), called an allergen, by the body's immune system to which it has become hypersensitive.

Antibody: A Y-shaped protein found in human bodily fluids that are used by the immune system help direct an appropriate response for each different type of foreign object they encounter (like allergens).

Antigen: A molecule that stimulates an immune response (antibody generation). These can be found on pollen, animal dander, food, etc.

Asthma: A chronic respiratory disease, often caused by an allergic reaction, causing difficulty in breathing, inflammation and constriction of the airways. Symptoms can be mild to severe.

Atopic: The genetic predisposition for the development of an immunoglobulin E (IgE)-mediated response to common allergens. It is the strongest identifiable predisposing factor for developing asthma.

Cat Allergy: A reaction to the glycoprotein Fel d 1 secreted by the cat's oil glands and is mostly found on the cat's skin and in their saliva.

Cockroach: One of the most common and allergenic of all indoor pests that is active primarily at night. A national study has shown that cockroach allergens appear to worsen asthma symptoms in persons allergic to cockroaches. The two most common types of cockroaches that live indoors in North America are the American cockroach (*Periplaneta americana*), and the German cockroach (*Blattella germanica*). The levels of cockroaches and allergens are directly related to cockroach population density, housing disrepair, and sanitary conditions.

Dander: Material shed from the body of animals, similar to dandruff that can cause allergic reactions in humans.

Dog Allergy: A reaction to the protein Can f 1 found in dog dander. This is no established risk threshold.

ELISA: Enzyme-Linked ImmunoSorbent Assay is a biochemical technique used to detect the presence of an antibody or antigen in a dust sample.

Gram: A metric unit of mass equal to approximately 28 ounces.

House Dust mite: Tiny microscopic relatives of spiders that live on mattresses, bedding, upholstered furniture, carpets and curtains. They are often abbreviated by allergists as HDM and are considered the most common cause of allergy and asthma. Dust mites thrive in house dust. They can be transported in the air by normal household activities. There are two commonly occurring dust mites 1) the American house dust mite, (*Dermatophagoides farinae*) and 2) the European house dust mite, (*Dermatophagoides pteronyssinus*).

Microgram: One millionth of a gram.

Mold Allergy: A reaction to mold proteins, e.g., Asp f 1 (*Aspergillus fumigatus*) and Alt a 1 (*Alternaria alternata*). This is no established risk threshold.

Mouse Allergy: A reaction to the protein Mus m 1 found in mouse dander. This is no established risk threshold.

None Detected (ND): No allergen detected because it is not present in the sample or the amount present may be lower than the capability of the analytical method.

Level of Detection: The lowest quantity of allergens that can be reliably distinguished from a blank value.

Rat Allergy: A reaction to the protein Rat n 1 found in rat dander. This is no established risk threshold.

Sensitization: The production of specific antibodies (IgE) as a response to the exposure to allergens.

Threshold Limit Value: Adopted from "Field Guide for the Determination of Biological Contaminants in Environmental Samples", L-L. Hung, et al., 2nd edition, American Industrial Hygiene Association Biosafety & Environmental Microbiology Committee, 2005, and the references contained therein. In general, the level to which a person can be exposed without adverse health effects

Units per gram: Units of allergen per gram.

END OF REPORT