

**MicroTest® Laboratories, Inc.**  
**AIHA EMPAT #160934**  
Environmental Biological Testing  
8080 Madison Ave., Suite 100B  
Fair Oaks, CA 95628  
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October 3, 2007

State of California- Building and Property Management  
707 3<sup>rd</sup> Street  
West Sacramento, CA 95606

Re: 450 N Street  
Sacramento, CA

Dear Sirs,

Please find following the results of the sampling obtained at 450 N Street on 10/02/07. The areas sampled were chosen, by you, for Zefon "Viable/Non-Viable" air sampling analyses. No *Stachybotrys chartarum* was observed. The concentration and distribution of the recovered populations fall within the expected normal range in the areas analyzed.

For your convenience, the following is an interpretative guideline provided for your use.

**Interpretive Guidelines:**

**Normal Spore Levels:** Indoor spore levels usually average 30% to 80% of the outdoor spore levels at the time of sampling, with the approximate same distribution of spore types. Filtered air, air-conditioned air or air that is not in the proximity of outdoor sources may drop to 5% to 15% of the outdoor spore levels at the time of sampling. As these are general guidelines, a major factor is the accessibility of outdoor air. A residence with heavy foot traffic, open door and windows, etc., may average 95% of the outdoor levels. An office building with limited air exchange may average as low as 2% of the outdoor levels. Dusty interiors may exceed 100% of the outdoor spore levels but will mirror the outdoor distribution of spore types.

**Problem Interiors:** A substantial increase of one or two spore types, which are inconsistent and not reflective of the outside, spore distribution. This is usually indicative of mold growth.

**Suggested Guidelines for Mold Spore and Skin Cell Fragment Concentrations  
Residential Buildings (Counts/Cubic Meter) m<sup>3</sup>**

Suggested Guideline	Total	<i>Penicillium/Aspergillus</i>	Ascospores/ Basidiospores	<i>Cladosporium</i>	Zygomycetes	Skin Cell Fragments
"Average" Clean Residence	<1,800	<600	<200	<100	<100	<9,000
"Clean" Residence (Maximum)	<3,000	<1,400	*<900	*<800	<600	<16,000
Indoor Contamination Present	***>8,000	>4,000	*>1,500	*>600	>700	>20,000
Indoor Amplification May Be Occurring	*>12,000	>8,000	*>1,500	*>1350	>1,000	**>30,000

Reference: *Airborne Mold Spore Concentrations in Commercial & Residential Buildings*, Daniel M. Baxter, Environmental Testing Associates, San Diego, CA., 1995.

\* May depend on outside spore concentration for each species

\*\* Based on mean plus standard deviation of contaminated residences indicating inadequate housekeeping

\*\*\* Based on median of contaminated residences

**Summary of Mold Spore Species Distribution**

Building Type	<i>Penicillium/Aspergillus</i>	Ascospores/ Basidiospores	<i>Cladosporium</i>	Zygomycetes	Skin Cell Fragments
"Clean" Commercial Buildings	37%	24%	11%	5%	23%
"Contaminated" Commercial Buildings	66%	6%	4%	10%	14%
"Clean" Residential Buildings	39%	18%	21%	<1%	22%
"Contaminated" Residential Buildings	20%	76%	1%	1%	2%
"Contaminated Buildings Sampled During Drywall Demolition	92%	<1%	<1%	5%	3%

Reference: *Airborne Mold Spore Concentrations in Commercial & Residential Buildings*, Daniel M. Baxter, Environmental Testing Associates, San Diego, CA., 1995.

Thank you for allowing *MicroTest*<sup>TM</sup>Laboratories, Inc. to provide the microbiological services you required.

Sincerely,

Rebecca Hutto  
President  
*MicroTest*<sup>TM</sup>Laboratories, Inc.

RH/amc

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Client Name:	State Of California-Building and Property Management 707 3rd Street, Suite 5000 West Sacramento, CA 95605	Contact Name:	Lance Lister
Project:	450 N Street Sacramento, CA	Sampler:	Jeff Neeland
		Sample Date:	10/2/07
		Receipt Date:	10/3/07
		Report Date:	10/3/07
		Accession No:	727601-727610
		Instrument Used:	Zefon

**Non-Viable Bioaerosol Analysis**

Client Project Identification	12251126 Outside			12251124 Reception Area, Ste 311, F-3			12251125 M-18, F-11			12251122 N-20, Ste 2102, F-21		
	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area
Alternaria	3	40	1%							1	13	5%
Arthrinium												
Ascospores	78	1040	21%	4	53	25%	4	53	24%	5	67	24%
Aureobasidium												
Basidiospores	15	200	4%	1	13	6%	3	40	18%	2	27	10%
Botrytis												
Chaetomium	2	27	1%									
Cladosporium	198	2639	54%	1	13	6%				2	27	10%
Curvularia												
Drechslera/Bipolaris Group	1	13	0.3%									
Epicoccum												
Nigrospora	1	13	0.3%									
Penicillium/Aspergillus*	60	800	16%	9	120	56%	7	93	41%	10	133	48%
Pollen	9	120	2%	1	13	6%	3	40	18%	1	13	5%
Rusts												
Pithomyces												
Smuts/Peric/Myxomycetes	1	13	0.3%									
Stachybotrys												
Stemphylium	1	13	0.3%									
Torula	1	13	0.3%									
Ulocladium												
<b>Total Spores (Cts/m<sup>3</sup>):</b>	<b>370</b>	<b>4,932</b>		<b>16</b>	<b>213</b>		<b>17</b>	<b>227</b>		<b>21</b>	<b>280</b>	
Sample Volume (Liters)	75			75			75			75		
Sample Time Minutes:	5			5			5			5		
Background Debris**	Moderate			Moderate			Moderate			Moderate		

\*The spores of *Penicillium/Aspergillus* cannot be differentiated by non-viable sampling methods.

\*\*Fibers, skin fragments and dust are indicated by few, moderate, many, and abundant.

Comments:

Technologist: Rebecca Hutty, *MicroTest Labs™, Inc.*

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Project:	450 N Street Sacramento, CA	Sampler:	Jeff Neeland
		Sample Date:	10/2/07
		Receipt Date:	10/3/07
		Report Date:	10/3/07
		Accession No:	727601-727610
		Instrument Used:	Zefon

**Non-Viable Bioaerosol Analysis**

Client Project Identification	12251126 Outside			12250999 Reception Area, Ste 2427, F-24			12251225 Post Coil, AH 1&2			12251219 K-22, F-19		
	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area
Alternaria	3	40	1%									
Arthrinium												
Ascospores	78	1040	21%	1	13	7%				3	40	14%
Aureobasidium												
Basidiospores	15	200	4%							2	27	10%
Botrytis												
Chaetomium	2	27	1%									
Cladosporium	198	2639	54%							2	27	10%
Curvularia												
Drechslera/Bipolaris Group	1	13	0.3%									
Epicoccum												
Nigrospora	1	13	0.3%									
Penicillium/Aspergillus*	60	800	16%	13	173	87%				14	187	67%
Pollen	9	120	2%									
Rusts				1	13	7%						
Pithomyces												
Smuts/Peric/Myxomycetes	1	13	0.3%									
Stachybotrys												
Stemphylium	1	13	0.3%									
Torula	1	13	0.3%									
Ulocladium												
<b>Total Spores (Cts/m<sup>3</sup>):</b>	<b>370</b>	<b>4,932</b>		<b>15</b>	<b>200</b>		<b>None</b>			<b>21</b>	<b>280</b>	
Sample Volume (Liters)	75			75						75		
Sample Time Minutes:	5			5						5		
Background Debris**	Moderate			Moderate			Few			Few		

**see comment**

\*The spores of *Penicillium/Aspergillus* cannot be differentiated by non-viable sampling methods.

\*\*Fibers, skin fragments and dust are indicated by few, moderate, many, and abundant.

Comments: **No mold spores observed.**

Technologist: Rebecca Huty, *MicroTest Labs™, Inc.*

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		Accession No:	727601-727610
		Instrument Used:	Zefon

**Non-Viable Bioaerosol Analysis**

Client Project Identification	12251126 Outside			12251107 K-20, Ste 2210, F-22			12251102 Reception Area, Ste 2334, F-23					
	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area	raw ct.	Cts/m <sup>3</sup>	% Area
Alternaria	3	40	1%									
Arthrinium												
Ascospores	78	1040	21%	1	13	11%	1	13	13%			
Aureobasidium												
Basidiospores	15	200	4%	1	13	11%	1	13	13%			
Botrytis												
Chaetomium	2	27	1%									
Cladosporium	198	2639	54%									
Curvularia												
Drechslera/Bipolaris Group	1	13	0.3%									
Epicoccum												
Nigrospora	1	13	0.3%									
Penicillium/Aspergillus*	60	800	16%	7	93	78%	6	80	75%			
Pollen	9	120	2%									
Rusts												
Pithomyces												
Smuts/Peric/Myxomycetes	1	13	0.3%									
Stachybotrys												
Stemphylium	1	13	0.3%									
Torula	1	13	0.3%									
Ulocladium												
<b>Total Spores (Cts/m<sup>3</sup>):</b>	<b>370</b>	<b>4,932</b>		<b>9</b>	<b>120</b>		<b>8</b>	<b>107</b>				
Sample Volume (Liters)	75			75			75					
Sample Time Minutes:	5			5			5					
Background Debris**	Moderate			Few			Few					

\*The spores of *Penicillium/Aspergillus* cannot be differentiated by non-viable sampling methods.

\*\*Fibers, skin fragments and dust are indicated by few, moderate, many, and abundant.

Comments:

Technologist: Rebecca Huty, *MicroTest Labs™, Inc.*