



# Direct Exam: Spore Trap Analysis



SAI Method B-SOP-003

Client: Scientific Analytical Institute, Inc.  
4604 Dundas Dr.  
Greensboro, NC 27407

Attn: Palmer Hines

Lab Order ID: 1711454  
Analysis ID: 1711454\_STA  
Date Received: 06/01/2017  
Date Reported: 06/01/2017

Project: STA Sample Report

Sample ID	01			02			03			EXTERIOR		
Lab Sample ID	1711454_STA_001			1711454_STA_002			1711454_STA_003			AVERAGE		
Description	Kitchen			Master Bedroom			Master Bath			N/A		
Lab Notes										N/A		
Volume(L)	150			150			150			N/A		
Analytical Sensitivity (counts/m <sup>3</sup> )	39			39			39			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total
<i>Alternaria</i>				1	39.0	1.28%				4	177	1.50%
Ascospores	22	862	41.5%	16	627	20.5%	19	744	4.99%	172	6760	63.2%
<i>Aspergillus/ Penicillium-like</i>	13	509	24.5%	35	1370	44.9%	>300	>11800	78.7%**	6	216	2.20%
Basidiospores	6	235	11.3%	11	431	14.1%	9	353	2.36%	45	1760	16.5%
<i>Cercospora-like</i>										2	59.0	0.700%
<i>Chaetomium</i>				1	39.0	1.28%	16	627	4.20%			
<i>Cladosporium</i>	9	353	17.0%	12	470.	15.4%	22	862	5.77%	34	1310	12.5%
<i>Curvularia</i>							1	39.0	0.262%	2	78.0	0.700%
<i>Epicoccum</i>	1	39.0	1.89%				2	78.0	0.525%	4	157	1.50%
Myxomycete/ Rust/ Smut-like	2	78.0	3.77%	2	78.0	2.56%	3	118	0.787%			
<i>Polythrincium</i>										1	39.0	0.400%
<i>Stachybotrys</i>							9	353	2.36%			
<i>Tetraploa</i>										<1	20.0	N/A
<i>Torula</i>										<1	20.0	N/A
Unknown/Other										2	59.0	0.700%
<b>TOTAL</b>	<b>53</b>	<b>2080</b>	<b>100.0%</b>	<b>78</b>	<b>3060</b>	<b>100.0%</b>	<b>&gt;381</b>	<b>&gt;14900</b>	<b>100.0%</b>	<b>272</b>	<b>10700</b>	<b>100.0%</b>
Non-Cellulosic Fibers	2	78.0	-	3	118	-	7	274	-	-	-	-
Hyphal Fragments	1	39.0	-	3	118	-	6	235	-	3	118	-
Insect Parts	-	-	-	-	-	-	-	-	-	0	20.0	-
Pollen	1	39.0	-	-	-	-	2	78.0	-	12	470.	-
Skin Cell % of Total Debris		60-80%			80-100%			60-80%			N/A	
Total Debris in Background		60-80%			80-100%			80-100%			N/A	

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\*\*High spore concentrations denote an approximate percentage of total amount.

Palmer Hines (5)

Analyst

Approved Signatory



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Sample ID	04			05			EXTERIOR		
Lab Sample ID	1711454_STA_004			1711454_STA_005			AVERAGE		
Description	Exterior- Front			Exterior- Rear			N/A		
Lab Notes							N/A		
Volume(L)	150			150			N/A		
Analytical Sensitivity (counts/m <sup>3</sup> )	39			39			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total	Raw Count	Concentration (counts/m <sup>3</sup> )	% Of Total
<i>Alternaria</i>	3	118	1.17%	6	235	2.08%	4	177	1.50%
Ascospores	159	6230	62.1%	186	7290	64.6%	172	6760	63.2%
<i>Aspergillus/ Penicillium-like</i>				11	431	3.82%	6	216	2.20%
Basidiospores	49	1920	19.1%	41	1610	14.2%	45	1760	16.5%
<i>Cercospora-like</i>	3	118	1.17%				2	59.0	0.700%
<i>Chaetomium</i>									
<i>Cladosporium</i>	31	1220	12.1%	36	1410	12.5%	34	1310	12.5%
<i>Curvularia</i>	2	78.0	0.781%	2	78.0	0.694%	2	78.0	0.700%
<i>Epicoccum</i>	5	196	1.95%	3	118	1.04%	4	157	1.50%
Myxomycete/ Rust/ Smut-like									
<i>Polythrincium</i>	2	78.0	0.781%				1	39.0	0.400%
<i>Stachybotrys</i>									
<i>Tetraploa</i>				1	39.0	0.347%	<1	20.0	N/A
<i>Torula</i>	1	39.0	0.391%				<1	20.0	N/A
Unknown/Other	1	39.0	0.391%	2	78.0	0.694%	2	59.0	0.700%
<b>TOTAL</b>	<b>256</b>	<b>10000</b>	<b>100.0%</b>	<b>288</b>	<b>11300</b>	<b>100.0%</b>	<b>272</b>	<b>10700</b>	<b>100.0%</b>
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-
Hyphal Fragments	2	78.0	-	4	157	-	3	118	-
Insect Parts	-	-	-	1	39.0	-	0	20.0	-
Pollen	13	509	-	11	431	-	12	470.	-
<b>Skin Cell % of Total Debris</b>		<b>0-20%</b>			<b>0-20%</b>			N/A	
<b>Total Debris in Background</b>		<b>60-80%</b>			<b>60-80%</b>			N/A	

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