



Direct Exam: Spore Trap Analysis

SAI Method B-SOP-003



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

Attn: Palmer Hines

Lab Order ID: 10033059

Analysis: STA

Date Received: 09/20/2023

Date Reported: 09/20/2023

Project: STA Sample Report

Sample ID	01			02			03			EXTERIOR		
Lab Sample ID	10033059_0001			10033059_0002			10033059_0003			AVERAGE		
Description	Kitchen			Master Bedroom			Master Bath			N/A		
Lab Notes										N/A		
Volume (L)	150			150			150			N/A		
Analytical Sensitivity (counts/m³)	39			39			39			N/A		
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
<i>Alternaria</i>				1	39.2	1.28%				5	177	1.82%
Arthrospores				16	627	20.5%						
Ascospores	22	862	41.5%				19	744	4.99%	173	6760	63.1%
<i>Aspergillus/Penicillium-like</i>	13	509	24.5%	35	1370	44.9%	>300	>11800	78.7%**	6	216	2.19%
Basidiospores	6	235	11.3%	11	431	14.1%	9	353	2.36%	45	1770	16.4%
<i>Cercospora-like</i>										2	59.0	0.730%
<i>Chaetomium</i>				1	39.2	1.28%	16	627	4.2%			
<i>Cladosporium</i>	9	353	17.0%	12	470.	15.4%	22	862	5.77%	34	1310	12.4%
<i>Curvularia</i>							1	39.2	0.262%	2	78.4	0.730%
<i>Epicoccum</i>	1	39.2	1.89%				2	78.4	0.525%	4	157	1.46%
Myxomycete/Rust/Smut-like	2	78.4	3.77%	2	78.4	2.56%	3	118	0.787%			
<i>Polythrincium</i>										1	39.2	0.365%
<i>Stachybotrys</i>							9	353	2.36%			
<i>Tetraploa</i>										<1	19.6	N/A
<i>Torula</i>										<1	19.6	N/A
Unknown/Other										2	58.8	0.730%
TOTAL	53	2080	100.0%	78	3060	100.0%	>381	>14900	100.0%	274	10700	100.0%
Non-Cellulosic Fibers	2	78.4	-	3	118	-	7	274	-	-	-	-
Hyphal Fragments	1	39.2	-	3	118	-	6	235	-	3	117.7	-
Insect Parts	-	-	-	-	-	-	-	-	-	-	19.6	-
Pollen	1	39.2	-	-	-	-	2	78.4	-	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	10033059_0004	10033059_0005	AVERAGE									
Description	Exterior - Front	Exterior - Rear	N/A									
Lab Notes			N/A									
Volume (L)	150	150	N/A									
Analytical Sensitivity (counts/m³)	39	39	N/A									
IDENTIFICATION	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total	Raw Count	Concentration (counts/m³)	% Of Total
<i>Alternaria</i>	3	118	1.17%	6	235	2.08%	5	177	1.82%			
Arthrospores												
Ascospores	159	6230	62.1%	186	7290	64.6%	173	6760	63.1%			
<i>Aspergillus/Penicillium-like</i>				11	431	3.82%	6	216	2.19%			
Basidiospores	49	1920	19.1%	41	1610	14.2%	45	1770	16.4%			
<i>Cercospora-like</i>	3	118	1.17%				2	59.0	0.730%			
<i>Chaetomium</i>												
<i>Cladosporium</i>	31	1210	12.1%	36	1410	12.5%	34	1310	12.4%			
<i>Curvularia</i>	2	78.4	0.781%	2	78.4	0.694%	2	78.4	0.730%			
<i>Epicoccum</i>	5	196	1.95%	3	118	1.04%	4	157	1.46%			
Myxomycete/Rust/Smut-like												
<i>Polythrincium</i>	2	78.4	0.781%				1	39.2	0.365%			
<i>Stachybotrys</i>												
<i>Tetraploa</i>				1	39.2	0.347%	<1	19.6	N/A			
<i>Torula</i>	1	39.2	0.391%				<1	19.6	N/A			
Unknown/Other	1	39.2	0.391%	2	78.4	0.694%	2	58.8	0.730%			
TOTAL	256	10000	100.0%	288	11300	100.0%	-	-	-	274	10700	100.0%
Non-Cellulosic Fibers	-	-	-	-	-	-	-	-	-	-	-	-
Hyphal Fragments	2	78.4	-	4	157	-	-	-	-	3	117.7	-
Insect Parts	-	-	-	1	39.2	-	-	-	-	-	19.6	-
Pollen	13	509	-	11	431	-	-	-	-	12	470	-
Skin Cell % of Total Debris		0-20%			0-20%			N/A			N/A	
Total Debris in Background		60-80%			60-80%			N/A			N/A	

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