



Viridis Australasia Pty Ltd

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PROJECT DETAILS

Viridis Job Number : VL4000XXX SAMPLE REPORT
Project Manager : Bryan Jepsen
Project Manager Phone : 0421771777

Project Address : 123 Sesame St
Project ID : SAMP1000
Purchase Order Number : PO12345

Company Name : Sample Company
Company Address : 321 Poppy St
 Brisbane
 QLD, 4000
Company Telephone : (07) 3333 3333
Email Report To : j.doe@business.com.au

SAMPLE DETAILS

Sample Type : Tapelift
Method of Analysis : VL001
Sample Media : Bio-Tape™
Turnaround Time : 48 hrs
Laboratory Manager : Victoria Samios

Date Sampled : 7/01/2019
Date Received : 9/01/2019
Time Received : 9:00 AM
Date Analysed : 11/01/2019
Analyst : AB

SURFACE SAMPLE CONDITIONS

Sample Environment

Time Sampled : 2:00 PM
Temperature : 25 °C
Humidity : 55 %

Weather

Rain : None
Wind : Light
Dust : Light

Special Instructions/Comments

Recent flooding event, water infiltrated up to 1.8 meters of two storey home. Request to schedule an IAQ consultant if results require further investigation.

Interpretation Notes

Sample Results

Analysis is based on samples received, where the results assume the sampler has used surface samplers by manufacturers recommendations. This report is only valid when produced in full.

Analytical Method

In compliance with International Standard ASTM D7658-17 :

- The list of genera include at minimum, all genera listed in the standard;
- 40 fields of view are typically enumerated for samples exhibiting low levels of contamination;
- Limit of reporting is typically 40 fs/cm, however may vary by field of views analysed;
- Though not shown, all Genera names are followed by the wording "-like";
- Fungal structures are counted regardless of whether they would grow on culture or not, as both types are allergenic.

Where IICRC Condition is 1, fungal ecology is normal, and Percent Coverage represents debris only.

Where IICRC Condition is 2 or 3, Percent Coverage represents fungal coverage only.

Key Terms/Definitions

fs/m² - Fungal Structures per cubic meter of air as determined using phase contrast microscopy at x400 magnification.

Fungal Structure - Spores, hyphae & fruiting bodies.

Legend

IICRC Condition*	
1	- an indoor environment that may have settled spores, fungal fragments or traces of actual growth whose identity, location and quantity are reflective of a normal fungal ecology for a similar indoor environment.
2	- an indoor environment that is primarily contaminated with settled spores that were dispersed directly or indirectly from a Condition 3 area, and which may have traces of actual growth.
3	- an indoor environment contaminated with the presence of actual mould growth and associated spores. Actual growth includes growth that is active or dormant, visible or hidden.

Percent Coverage**	
A -	1 - 5%
B -	6 - 10%
C -	11 - 25%
D -	26 - 50%
E -	> 50%

*- IICRC S520 Standard and Reference Guide for Professional Mold Remediation 4th Ed. (2015)

** - Estimate only. For samples that are found to be IICRC Condition 1, Percentage Coverage is indicative of the debris coverage.

Viridis Laboratory Number	Sample Description	IICRC Condition	Percent Coverage	Comments
VL4000XXX-1	Upstairs Kitchen Sink Slide Serial # 9999 8888 Expiry: 09/2019	1	A	Very light coverage of debris with normal fungal ecology. No action required.
VL4000XXX-2	Hallway Floorboard Slide Serial # 9999 8887 Expiry: 09/2019	3	B	Light coverage of actively growing mould. Recommend remediation in accordance with relevant standard, e.g. IICRC S520, and retest prior to reuse. DOMINANT GENERA : Chaetomium - like.
VL4000XXX-3	Bathroom Cupboard Slide Serial # 9999 8886 Expiry: 09/2019	3	A	Very light coverage of actively growing mould. Recommend remediation in accordance with relevant standard, e.g. IICRC S520, and retest prior to reuse. DOMINANT GENERA : Epicoccum - like. (Desiccated)
VL4000XXX-4	Teddy Bear Slide Serial # 9999 8885 Expiry: 09/2019	2	A	Very light coverage of settled mould spores, likely from a water damaged source. Recommend remediation in accordance with relevant standard, e.g. IICRC S520, and retest prior to reuse. DOMINANT GENERA : Aspergillus/Penicillium - like.
VL4000XXX-5	Ceiling Cavity 1 Slide Serial # 9999 8884 Expiry: 09/2019	3	E	Very heavy coverage of actively growing mould. Recommend remediation in accordance with relevant standard, e.g. IICRC S520, and retest prior to reuse. DOMINANT GENERA : Cladosporium - like.
VL4000XXX-6	Ceiling Cavity 2 Slide Serial # 9999 8883 Expiry: 09/2019	3	D	Heavy coverage of actively growing mould. Recommend remediation in accordance with relevant standard, e.g. IICRC S520, and retest prior to reuse. DOMINANT GENERA : Aspergillus/Penicillium - like.



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PROJECT DETAILS

Viridis Job Number	: VL4000XXX SAMPLE REPORT	Company Name	: Sample Company
Project Manager	: Bryan Jepsen	Company Address	: 321 Poppy St Brisbane QLD, 4000
Project Manager Phone	: 0421771777	Company Telephone	: (07) 3333 3333
Project Address	: 123 Sesame St	Email Report To	: j.doe@business.com.au
Project ID	: SAMP1000		
Purchase Order Number	: PO12345		

SAMPLE DETAILS

Sample Type	: Air	Date Sampled	: 7/01/2019
Method of Analysis	: VL002	Date Received	: 9/01/2019
Cassette Type	: Allergenco-D	Time Received	: 9:00 AM
Turnaround Time	: 48 hrs	Date Analysed	: 11/01/2019
Laboratory Manager	: Victoria Samios	Analyst	: AB

AIR SAMPLE CONDITIONS

Sample Environment

Time Sampled : 2:00 PM
Temperature : 25 °C
Humidity : 55 %

Ventilation

Doors/Windows : Shut
HVAC : Off
Scrubbers : Off
Scrubbers (Time since use) : 38 hrs

Weather

Rain : None
Wind : Light
Dust : Light

Special Instructions/Comments

Recent flooding event, water infiltrated up to 1.8 meters of two storey home. Request to schedule an IAQ consultant if results require further investigation.

Interpretation Notes

Sample Results

Analysis is based on samples received, where the results assume the sampler has used cassettes by manufacturers recommendations. This report is only valid when produced in full.

Analytical Method

In compliance with International Standard ASTM D7391-17^{e1}, typically greater than 20% of the sample trace is enumerated. The number of traverses counted may be limited by the "Stop-Count Rule" or increased by the analyst as required. A stop-count is applied when, during analysis of a sample, the total spores counted exceed 300-spores. Typical limit of reporting of 64 fs/m³ will vary depending on volume of air sampled and traverses counted.

Key Terms/Definitions

fs/m³ - Fungal Structures per cubic meter of air as determined using phase contrast microscopy at x400 magnification.

Total Spores - Total Spores, including Miscellaneous/Unidentified Spores.

Asp/Pen Spores - *Aspergillus/Penicillium* -like spores. Spores of *Aspergillus* and *Penicillium* (and others including *Trichoderma*, *Wallemia*, *Scopulariopsis*) are small, spherical and exhibit limited distinguishing characteristics. Differentiation by non-viable sampling methods is limited. Some genera with very small spores are easily missed and may be undercounted.

Stachy Spores - *Stachybotrys/Memnoniella* -like spores. These are morphologically similar and cannot be accurately distinguished using non-viable sampling methods.

Analytical Sensitivity - The limit of reporting represents the minimum number of fungal structures per cubic meter (fs/m³) detectable for each spore category.

Debris Loading - Non-microbial particle debris rating, measured by estimation of the average occlusion of particulate on sample observed.

Debris Loading *
0 - 0%
1 - <5 % occlusion
2 - 5% to 25% occlusion
3 - 25% to 75% occlusion
4 - 75% to 90% occlusion
5 - >90% occlusion

* Estimate only as based from ASTM D7391-17^{e1}. Bias increases by percent occlusion

Viridis Laboratory Number	Sample Description	Total Mould Spores (spores/m ³)	Total Asp/Pen Spores (spores/m ³)	Total Stachy Spores (spores/m ³)	Debris Loading	Analytical Sensitivity (spores/m ³)	Comments
VL4000XXX-7	Outdoors Cassette ID: 1234 5678 Cassette Expiry: Nov-20	998	102	0	3	26	Standard mould ecology for indoor environment. No action necessary. ASTM D7391-17 Debris Rating = 3 (25 - 75%)
VL4000XXX-8	Bathroom Cassette ID: 1234 5677 Cassette Expiry: Nov-20	1152	77	128	1	26	High mould spore concentration for an indoor environment, possibly due to water damage or an external source. (7% Aspergillus/Penicillium-like spores.) Investigate to identify the source of mould and remediate in accordance with relevant standard, e.g. IICRC S520. A concentration of 128 Stachybotrys/Memnoniella-like Spores/m3 was detected in the sample. ASTM D7391-17 Debris Rating = 1 (0 - 5%).
VL4000XXX-9	Lounge Cassette ID: 1234 5676 Cassette Expiry: Nov-20	5018	205	1280	2	26	Very high mould spore concentration for an indoor environment, probably due to water damage or an external source. (4% Aspergillus/Penicillium-like spores.) Investigate to identify the source of mould and remediate in accordance with relevant standard, e.g. IICRC S520. A concentration of 1280 Stachybotrys/Memnoniella-like Spores/m3 was detected in the sample. ASTM D7391-17 Debris Rating = 2 (5 - 25%).

Viridis Laboratory Number	Sample Description	Total Mould Spores (spores/m ³)	Total Asp./Pen. Spores (spores/m ³)	Total Stachyb. Spores (spores/m ³)	Debris Rating	Analytical Sensitivity (spores/m ³)	Comments
VL4000XXX-10	Master Bedroom Cassette ID: 1234 5675 Cassette Expiry: Nov-20	307	154	230	2	26	Standard mould ecology for indoor environment. No action necessary. A concentration of 230 Stachybotrys/Memnoniella-like Spores/m ³ was detected in the sample. ASTM D7391-17 Debris Rating = 2 (5 - 25%).
VL4000XXX-11	Bedroom 2 Cassette ID: 1234 5674 Cassette Expiry: Nov-20	14208	102	0	4	26	Very high mould spore concentration for an indoor environment, probably due to water damage or an external source. (1% Aspergillus/Penicillium-like spores.) Investigate to identify the source of mould and remediate in accordance with relevant standard, e.g. IICRC S520. ASTM D7391-17 Debris Rating = 4 (75 - 90%)
VL4000XXX-12	Kitchen Cassette ID: 1234 5673 Cassette Expiry: Nov-20	> 90000	5120	640	2	26	High Aspergillus/Penicillium-like spore concentration combined with very high total mould spore concentration, probably due to water damage or an external source. A concentration of 640 Stachybotrys/Memnoniella-like Spores/m ³ was detected in the sample. ASTM D7391-17 Debris Rating = 2 (5 - 25%).

PROJECT DETAILS

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Project Manager : Bryan Jepsen
Project Manager Phone : 0421771777
Project Address : 123 Sesame St

Project ID : SAMP1000
Purchase Order Number : PO12345

Company Name : Sample Company

Company Address : 321 Poppy St
 Brisbane
 QLD, 4000
Company Telephone : (07) 3333 3333

Email Report To : j.doe@business.com.au

SAMPLE DETAILS

Sample Environment : Air
Method of Analysis : VL002D
Cassette Type : Allergenco-D
Turnaround Time : 48 hrs
Laboratory Manager : Victoria Samios

Date Sampled : 7/01/2019
Date Received : 9/01/2019
Time Received : 9:00 AM
Date Analysed : 11/01/2019
Analyst : AB

AIR SAMPLE CONDITIONS

Sample Environment
 Time Sampled : 2:00 PM
 Temperature : 25 °C
 Humidity : 55 %

Weather
 Rain : None
 Wind : Light
 Dust : Light

Ventilation

Doors/Windows : Shut
 HVAC : Off
 Scrubbers : Off
 Scrubbers (Time since use) : 38 hrs

Special Instructions/Comments

Recent flooding event, water infiltrated up to 1.8 meters of two storey home. Request to schedule an IAQ consultant if results require further investigation.

Interpretation Notes

Sample Results

Analysis is based on samples received, where the results assume the sampler has used cassettes by manufacturers recommendations. This report is only valid when produced in full.

Analytical Method

In compliance with International Standard ASTM D7391-17^{e1}, typically greater than 20% of the sample trace is enumerated. The number of traverses counted may be limited by the "Stop-Count Rule" or increased by the analyst as required. A stop-count is applied when, during analysis of a sample, the total spores counted exceed 300-spores. Typical Analytical Sensitivity of 64 fs/m³ will vary depending on volume of air sampled and traverses counted.

Key Terms/Definitions

fs/m³ - Fungal Structures per cubic meter of air as determined using phase contrast microscopy at x400 magnification.

Total Spores - Total Spores, including Miscellaneous/Unidentified Spores.

Asp./Pen. Spores -

Aspergillus/Penicillium-like spores. Spores of Aspergillus and Penicillium (and others including Trichoderma, Wallemia, Scopulariopsis) are small, spherical and exhibit limited distinguishing characteristics. Differentiation by non-viable sampling methods is limited. Some genera with very small spores are easily missed and may be undercounted.

Stachyb. Spores -

Stachybotrys/Memnoniella-like spores. These are morphologically similar and cannot be accurately distinguished using non-viable sampling methods.

Analytical Sensitivity -

The limit of reporting represents the minimum number of fungal structures per cubic meter (fs/m³) detectable for each spore category.

Debris Loading -

Non-microbial particle debris rating, measured by estimation of the average occlusion of particulate on sample observed.

Debris Loading *	
0	- 0%
1	- <5 % occlusion
2	- 5% to 25% occlusion
3	- 25% to 75% occlusion
4	- 75% to 90% occlusion
5	- >90% occlusion

* Estimate only as based from ASTM D7391-17^{e1}. Negative bias increases by percent occlusion.

Viridis Laboratory Number	VL4000XXX-13					VL4000XXX-14				
Sample Description	Outdoors					Bathroom				
Sample Time (min)	5					5				
Cassette Serial Number	1234 5678					1234 5677				
Cassette Expiry	Nov-20					Nov-20				
Sample Environment	Outdoor					Indoor				
Flow Rate (L/min)	15					15				
Sample Volume (L)	75					75				
Traverses Counted	30					30				
Analytical Sensitivity (fs/m ³)	26					26				
Debris Rating	1					3				
Genera	Raw Count	Conc (fs/m ³)	Genera %	Number of Clusters	Avg. Spores per Cluster	Raw Count	Conc (fs/m ³)	Genera %	Number of Clusters	Avg. Spores per Cluster
Alternaria	1	26	2%			-	-	-		
Ascospores (undifferentiated)	3	78	6%			2	52	3%		
Aspergillus/Penicillium	6	156	13%	2	3.0	34	884	51%	6	5.7
Aureobasidium	-	-	-	-	-	-	-	-	-	-
Basidiospores (undifferentiated)	-	-	-			-	-	-		
Cercospora	-	-	-			-	-	-		
Chaetomium	-	-	-			-	-	-		
Cladophialophora	4	104	8%	1	4.0	-	-	-	-	-
Cladosporium	-	-	-	-	-	25	650	37%	5	5.0
Curvularia	-	-	-			-	-	-		
Drechslera/Bipolaris	-	-	-			-	-	-		
Epicoccum	15	390	31%			-	-	-		
Fusarium	-	-	-			-	-	-		
Ganoderma	9	234	19%			-	-	-		
Nigrospora	1	26	2%			-	-	-		
Pithomyces	1	26	2%			-	-	-		
Scopulariopsis	-	-	-	-	-	6	156	9%	1	6.0
Smuts/Myxomycetes/Periconia	6	156	13%			-	-	-		
Spegazzinia	-	-	-			-	-	-		
Stachybotrys/Memnoniella	-	-	-			-	-	-		
Tetraploa	-	-	-			-	-	-		
Torula	-	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-			-	-	-		
Zygophiala	-	-	-			-	-	-		
Miscellaneous/Unidentified	-	-	-			-	-	-		
Hyphal Fragments	2	52	4%			-	-	-		
Total		1248	100%				1742	100%		
	Standard mould ecology for outdoor environment. (13% Aspergillus/Penicillium-like spores.) ASTM D7391-17 Debris Rating = 1 (0 - 5%).					High Aspergillus/Penicillium-like spore concentration combined with high total mould spore concentration, probably due to water damage or an external source. (51% Aspergillus/Penicillium-like spores.) Investigate to identify the source of mould and remediate in accordance with relevant standard, e.g. IICRC S520. ASTM D7391-17 Debris Rating = 3 (5 - 75%)				