

More Than Just Lab Results

Laboratory Analytical Results

CONTACT NAME: John Allen	TYPE OF SAMPLES: Air: Allergenco	PROJECT NAME: Yonge Steeles Ford Lincoln
COMPANY: LeakPro	NO. OF SAMPLES: 4	PROJECT NO: 2014 Escape IFMCU9GXIEUB87284
ADDRESS: 3016 Unity Road Kingston, ON K0H 1M0	DATE COLLECTED: November 26, 2015	LAB REFERENCE: MBL11789ANA
PHONE: 905-829-5325	DATE RECEIVED: November 26, 2015	ANALYSED BY: Georget Shamoon, PhD.
	DATE ANALYSED: November 27, 2015	REVIEWED BY: Jackson Kung'u, PhD.
	DATE REPORTED: November 27, 2015	

Method of Analysis: Based on ASTM D7391 - 09 Standard Test Method for Categorization and Quantification of Airborne Fungal Structures

Analysis is performed according to the SOP-MBL-M-3- Analysis of Fungi in Air Samples by Direct Microscopic Examination (DME). The slide impacted with air sample is placed on a drop of lactophenol cotton blue on a clean microscope slide and subsequently scanned at X 100 or X 200 magnification to give the analyst an overview of sample deposition and the diversity of the spores present on the slide. The slide is then analysed at X400 or X600 magnification by counting and identifying spores in at least 20% of the sample deposition area. Spores occurring in chains are counted individually. Raw counts are converted to spores/m³ of air. Spores lacking distinguishing characteristics are reported as "Unidentified spores". Where the analyst is able to identify the group to which the spores belong but not the mould they belong to, the spores may be recorded as "Unidentified Basidiospores or Unidentified Ascospores". Spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are difficult to distinguish and are reported as *Aspergillus/Penicillium*.

A scale of 0 to 5+ is used to rate abundance of non-fungal material (debris), with 5+ indicating the largest amount. Large amounts of debris may obscure small spores. Therefore, counts from samples with 5+ non-fungal material may be treated as undercounts. Except for blanks, samples with no detected spores are recorded as "less than the method detection limit" (MDL). Results are not corrected for blanks.

Summary Results/Interpretation or Comments (where applicable):

Please see results on page 2. The total fungal spore counts for samples collected from inside are significantly lower than those of the outside/reference sample. Since these are post-remediation air samples, the total fungal spore counts for the inside samples are most likely background levels.

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Client's Sample No:	1			2			3			4								
Lab Sample ID:	MBL11789ANA-1			MBL11789ANA-2			MBL11789ANA-3			MBL11789ANA-4								
Sample Description	Outside Air			Inside Ambient			A/C Cold Recirc			Heat on Full								
Other Sample ID No.	1489078			1489079			1489083			1489084								
Total Air Volume (L)	75			75			75			75								
Sample Area Analysed (%)	25			25			25			25								
Fungal spores identified	raw ct.	%	ct./m ³	raw ct.	%	ct./m ³	raw ct.	%	ct./m ³	raw ct.	%	ct./m ³	raw ct.	%	ct./m ³	raw ct.	%	ct./m ³
<i>Alternaria sp.</i>																		
Ascospores (undifferentiated)																		
<i>Aspergillus/Penicillium sp.</i>	5	12	263	6	30	316				1	33	53						
Basidiospores (undifferentiated)	30	70	1578	9	45	473	2	100	105	2	67	105						
<i>Chaetomium sp.</i>																		
<i>Cladosporium sp.</i>	5	12	263	3	15	158												
<i>Coprinus sp.</i>																		
<i>Curvularia sp.</i>																		
Drechslera/Bipolaris group																		
<i>Epicoccum sp.</i>																		
<i>Fusarium sp.</i>																		
<i>Ganoderma sp.</i>																		
Helicospores																		
<i>Pithomyces sp.</i>																		
Rusts/Smuts/Myxomycetes																		
<i>Stachybotrys sp.</i>																		
<i>Ulocladium sp.</i>																		
Other unidentified spores	3	7	158	2	10	105												
Pollen																		
Fungal fragments Counts	1		53															
Debris Rating (0-5+)	3+			2+			2+			2+								
Spores/sample	170			79			8			12								
TOTAL SPORES/M³			2,262			1,052			105			158						
MDL (SPORES/M³)			53			53			53			53						

Notes: 1. Samples analysed at X600 magnification 2. MDL = Lower Method Detection Limit 3. raw ct. = raw spore count 4. Ct./m³ = spore counts per cubic meter of air
5. The result(s) relate only to the sample(s) tested.
6. This test report shall not be reproduced except in full, without written approval of Mold & Bacteria Consulting Laboratories (MBL) Inc.

References

1. ASTM Designation: D 7391-09. Standard Test Method for Categorization and Quantification of Airborne Fungal Structures in an Inertial Impaction Sample by Optical Microscopy.
2. Illustrated Genera of Imperfect Fungi. Barnet H.L and B. Hunter Barry. Burgess Publishing Company. Edition 3. 1972. ISBN 8087-0266-1
3. Sampling and Identifying Allergenic Pollens and Molds. An Illustrated Identification Manual for Air Samples. Edited by E. Grant Smith. Blewstone Press. San Antonio, Texas. 2000. ISBN 0-930961-02-1
4. The Air Spora. A Manual for Catching and Identifying Airborne Biological Particles. Edited by Maureen E. Lacey and J. S West. 2006. ISBN-13 978-0-378-30252