

Mike Dickson

From: Mike Dickson
Sent: Monday, February 12, 2018 5:11 PM
To: Heidi Petito
Subject: FW: Testing
Attachments: 371725839_002 (1) 1.pdf; 611702080_001.pdf; H2H Indoor Air- EN204520.pdf; 611800182_001 (6).pdf

From: Richard Van Dort [mailto:h2hinspectionsservices@gmail.com]
Sent: Thursday, February 08, 2018 5:26 PM
To: Mike Dickson <mdickson@flaglercounty.org>
Cc: Richard Van Dort <rich@h2hservices.com>
Subject: Testing

Mike,

This is somewhat complicated so let me describe what we did.

1. First testing was a broad brush test for genus ("general molds) first test attached (37125839) This test did not suggest we had an issue. This test use optical microscopy which is not as accurate as #2 test which is a DNA test.
2. At the same time we also tested for species molds that are in some cases a sub set of #1. These molds have been known to produce mycotoxins. We tested for the 11 species that are known. (611702080) This test uses a different method of testing which is searching for DNA. This was the test we used to call for Servpro to clean as it came back with (2) molds that are know to produce mycotoxins.
3. We came back when it was supposed to be clean (which it was not) We decided not to do air testing as the room was dirty however decided to test for mycotoxins that the labs can identify that are know to be produced by #2's molds. However there are many mycotoxins they can not test for Those results came back negative. See H2H EN204520
4. Servpro then cleaned it correctly. We came back and tested using a broader species test (36 species) and found an elevated amount of Penicillium Chrysogenum in room 129 and the IT room (worse in 129). This is a species test therefore it would not show up in #1 which was for genus only. It also was not tested for in #2 because it was not included in the 11 ones we normally test for. It is on page 2 of 611800182.
5. The water testing is still at the lab because the cultural growing is not fully done yet. I have alerted the lab to look for the Chrysogenum in the water.
6. I have also contacted the Doctor who is the head of the lab we tested the mycotoxins at. He is doing research for us on this mold species and any corrilation it may have with female estrogen.

He will follow up with me tomorrow of Monday. We should have the water cultures back by the middle of next week.

I will contact Servpro and let them know we still have an issue in 129 and come up with the next cleaning protocol to try and remove this species. Because the supplies and returns were taped properly this time it suggests it is in the room not the duct system for now.

Rich

EMSL Analytical, Inc.

200 Route 130 N, Cinnaminson, NJ 08077, Tel: 800-220-3675, Fax: 856-786-0262
 www.EMSL.com, Email: Dnalab2@EMSL.com



Client: H2H Assurance Services 123 Heron Drive Palm Coast, FL 32137	EMSL Reference: 611702080
Attn: Richard Van Dort	Date Received: 11/24/2017
Project: Flagler Sheriff's Office Job #OID 1240	Date Analyzed: 11/29/2017
Location: 129-Room	Date Reported: 11/29/2017
Sample size: 15 L Air	

Rapid Detection of Molds by Quantitative PCR

EMSL Test: M100

Sample Name	Species Identification	Spores E. in Sample	Spores E./L Air
129	<i>Aspergillus flavus</i>	Not detected	Not Detected
	<i>Aspergillus fumigatus</i>	Not detected	Not Detected
	<i>Aspergillus niger</i>	Not detected	Not Detected
	<i>Aspergillus ochraceus</i>	Not detected	Not Detected
	<i>Aspergillus versicolor</i>	Not detected	Not Detected
	<i>Chaetomium globosum</i>	23	2
	<i>Mucor and Rhizopus group</i>	Not detected	Not Detected
	<i>Penicillium brevicompactum</i>	Not detected	Not Detected
	<i>Rhizopus stolonifer</i>	Not detected	Not Detected
	<i>Stachybotrys chartarum</i>	Not detected	Not Detected
	<i>Trichoderma viride</i>	Not detected	Not Detected

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Sergey Balashov, Ph.D.
 PCR Laboratory Director

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Client: **H2H Assurance Services**
123 Heron Drive
Palm Coast, FL 32137

Attn: **Richard Van Dort**

Project: **Flagler Sheriff's Office Job #OID 1240**

Location: **IT Room**

Sample size: **15 L Air**

EMSL Reference: **611702080**
Date Received: **11/24/2017**
Date Analyzed: **11/29/2017**
Date Reported: **11/29/2017**

Rapid Detection of Molds by Quantitative PCR

EMSL Test: M100

Sample Name	Species Identification	Spores E. in Sample	Spores E./L Air
IT-1	<i>Aspergillus flavus</i>	Not detected	Not Detected
	<i>Aspergillus fumigatus</i>	Not detected	Not Detected
	<i>Aspergillus niger</i>	170	11
	<i>Aspergillus ochraceus</i>	Not detected	Not Detected
	<i>Aspergillus versicolor</i>	Not detected	Not Detected
	<i>Chaetomium globosum</i>	Not detected	Not Detected
	<i>Mucor and Rhizopus group</i>	Not detected	Not Detected
	<i>Penicillium brevicompactum</i>	Not detected	Not Detected
	<i>Rhizopus stolonifer</i>	Not detected	Not Detected
	<i>Stachybotrys chartarum</i>	Not detected	Not Detected
	<i>Trichoderma viride</i>	Not detected	Not Detected

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Client: H2H Indoor Air Solutions 123 Heron Drive Palm Coast, FL 32137	EMSL Order ID: 611800182
Attention: Richard Van Dort	Date Received: 2/5/2018
Project: Flagler Sheriff/OID-1569	Date Analyzed: 2/7/2018
	Date Reported: 2/8/2018

Rapid Detection of Common Molds by Quantitative PCR

EMSL Test: M233

Lab Sample Number	0182-1	0182-2	-	-
Client Sample ID	Room 129	Room IT	-	-
Sample Location	N/A	N/A	-	-
Sample size	0.18m3 Air	0.18m3 Air	-	-
EPA 36 Species Group -1	Spores E./ m3 Air	Spores E./ m3 Air	Spores E./ m3 Air	Spores E./ m3 Air
<i>Aspergillus flavus</i>	ND	ND	-	-
<i>Aspergillus fumigatus</i>	ND	ND	-	-
<i>Aspergillus niger</i>	ND	ND	-	-
<i>Aspergillus ochraceus</i>	ND	ND	-	-
<i>Aspergillus penicillioides</i>	3	ND	-	-
<i>Aspergillus restrictus</i>	ND	ND	-	-
<i>Aspergillus sclerotiorum</i>	ND	ND	-	-
<i>Aspergillus sydowii</i>	ND	ND	-	-
<i>Aspergillus unguis</i>	ND	ND	-	-
<i>Aspergillus versicolor</i>	ND	ND	-	-
<i>Eurotium (A.) amstelodami</i>	ND	ND	-	-
<i>Aureobasidium pullulans</i>	ND	ND	-	-
<i>Chaetomium globosum</i>	ND	214	-	-
<i>Cladosporium sphaerospermum</i>	12	1	-	-
<i>Paecilomyces variotii</i>	ND	ND	-	-
<i>Penicillium brevicompactum</i>	ND	ND	-	-
<i>Penicillium corylophilum</i>	ND	ND	-	-
<i>Penicillium crustosum (group2)</i>	ND	ND	-	-
<i>Penicillium purpurogenum</i>	ND	ND	-	-
<i>Penicillium spinulosum</i>	ND	ND	-	-
<i>Penicillium variable</i>	ND	ND	-	-
<i>Scopulariopsis brevicaulis</i>	ND	ND	-	-
<i>Scopulariopsis chartarum</i>	ND	ND	-	-
<i>Stachybotrys chartarum</i>	ND	ND	-	-
<i>Trichoderma viride</i>	ND	ND	-	-
<i>Wallemia sebi</i>	ND	ND	-	-
I-Total Spores Detected	15	215		

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Client: H2H Indoor Air Solutions 123 Heron Drive Palm Coast, FL 32137	EMSL Order ID: 611800182
Attention: Richard Van Dort	Date Received: 2/5/2018
Project: Flagler Sheriff/OID-1569	Date Analyzed: 2/7/2018
	Date Reported: 2/8/2018

Rapid Detection of Common Molds by Quantitative PCR

EMSL Test: M233

Lab Sample Number	0182-1	0182-2	-	-
Client Sample ID	Room 129	Room IT	-	-
Sample Location	N/A	N/A	-	-
Sample size	0.18m3 Air	0.18m3 Air	-	-
EPA 36 Species Group -2	Spores E./ m3 Air	Spores E./ m3 Air	Spores E./ m3 Air	Spores E./ m3 Air
<i>Acremonium strictum</i>	ND	ND	-	-
<i>Alternaria alternata</i>	ND	ND	-	-
<i>Aspergillus ustus</i>	26	ND	-	-
<i>Cladosporium cladosporioides I</i>	15	2	-	-
<i>Cladosporium cladosporioides II</i>	ND	ND	-	-
<i>Cladosporium herbarum</i>	ND	ND	-	-
<i>Epicoccum nigrum</i>	ND	ND	-	-
<i>Mucor and Rhizopus group</i>	ND	ND	-	-
<i>Penicillium chrysogenum</i>	920	191	-	-
<i>Rhizopus stolonifer</i>	ND	ND	-	-
II-Total Spores Detected	961	193		

Notes: ND=None detected; the result is below the analytical detection limit or not present.

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 PCR Laboratory Director



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Order ID: 371725839
Customer ID: HHAS25
Customer PO:
Project ID:

Attn: Rich Van Dort
H2H Assurance Services
123 Heron Drive
Palm Coast, FL 32137

Phone: (386) 246-2554
Fax:
Collected:
Received: 11/24/2017
Analyzed: 11/27/2017

Proj: Flagler Sheriff's Office Job #OID 1240

Test Report: Allergenco-D™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	371725839-0001			371725839-0002			371725839-0003		
Client Sample ID:	172980			172972			172969		
Volume (L):	450			450			450		
Sample Location:	129 - Open Area			129 - Jennifer			Outside		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria	-	-	-	-	-	-	-	-	-
Ascospores	2	10	4.7	2	10	11.4	18	130	7.8
Aspergillus/Penicillium	2	10	4.7	1	7	8	24	170	10.2
Basidiospores	3	20	9.4	2	10	11.4	126	902	54.1
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	10	72	33.8	3	20	22.7	51	370	22.2
Curvularia	4	30	14.1	2	10	11.4	1	7	0.4
Epicoccum	-	-	-	1*	2*	2.3	-	-	-
Fusarium	-	-	-	-	-	-	1	7	0.4
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	4	30	14.1	2	10	11.4	3	20	1.2
Pithomyces	2	10	4.7	-	-	-	1	7	0.4
Rust	-	-	-	-	-	-	1*	2*	0.1
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	1	7	3.3	2	10	11.4	1*	2*	0.1
Beltrania	-	-	-	-	-	-	-	-	-
Microascus	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	1*	2*	0.1
Paecilomyces	3	20	9.4	-	-	-	5	40	2.4
Pestalotia/Pestalotiopsis	2*	4*	1.9	1	7	8	1	7	0.4
Spegazzinia	-	-	-	1*	2*	2.3	-	-	-
Total Fungi	33	213	100	17	88	100	234	1666	100
Hyphal Fragment	10	72	-	5	40	-	5	40	-
Insect Fragment	5	40	-	3	20	-	2	10	-
Pollen	1*	2*	-	2	10	-	-	-	-
Analyt. Sensitivity 600x	-	7	-	-	7	-	-	7	-
Analyt. Sensitivity 300x	-	2*	-	-	2*	-	-	2*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	4	-	-	4	-	-	1	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

Vincent Iuzzolino, M.S., Laboratory Director
or Other Approved Signatory

No discernable field blank was submitted with this group of samples.

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. ""*"" Denotes particles found at 300X. ""*"" denotes not detected. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 11/28/2017 08:49:07

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com



ENVIRONMENTAL MYCOTOXIN
 PANEL REPORT FORM
 02/06/2018

RealTime Laboratories, Inc
 4100 Fairway Drive, Ste 600
 Carrollton, TX 75010
 Phone: 1-972-492-0419
 Fax: 1-972-243-7759
 Website: www.realtimelab.com
 Email: info@realtimelab.com
 CLIA #: 45D1051736
 CAP #: 7210193
 TaxId#: 45-0669342

Company: H2H Indoor Air Solutions
Project: Old-1546
Location: Sheriffs office
 Bunnell, FL
Date of Receipt: 02/01/2018
Date of Report: 02/06/2018

Accession No: EN204520
Date of Service: 01/29/2018
Specimen: Filter

Procedure Type

Ochratoxin A - Procedure by ELISA
 Aflatoxin Group (B1,B2,G1,G2) - Procedure by ELISA
 Trichothecene Group (Macrocylic) - Procedure by ELISA
 Gliotoxin Derivative - Procedure by ELISA

Results:

Code	Test	Specimen	Value	Result	Not Present if less than	Equivocal if between	Present if greater or equal
D8501	Ochratoxin A	Filter	0.31300 ppb	Not Present	1.8 ppb	1.8-2.0 ppb	2.0 ppb
D8502	Aflatoxin Group (B1,B2,G1,G2)	Filter	0.18900 ppb	Not Present	0.8 ppb	0.8-1.0 ppb	1.0 ppb
D8503	Trichothecene Group (Macrocylic)	Filter	0.01000 ppb	Not Present	0.02 ppb	0.02-0.03 ppb	0.03 ppb
D8510	Gliotoxin Derivative	Filter	0.19500 ppb	Not Present	0.5 ppb	0.5-1.0 ppb	1.0 ppb

Comment: Due to the commercial unavailability of previously used standards, RealTime Lab has validated a new, more sensitive standard for Trichothecene Testing. Effective 11/13/2017, all results are reported using the new standard. Please note the new values for cutoff levels.

Composite: 1. filter, 2. Dust Room 129-vacuum 3. Dust-Swab Room 129

Akumajasi

Director Signature _____

Tests such as this should be used only in conjunction with other medically established diagnostic elements (e.g., symptoms, history, clinical impressions, results from other tests, etc). Physicians should use all the information available to them to diagnose and determine appropriate treatment for their patients.
 Disclaimer: This test was developed and its performance characteristics determined by RealTime Lab. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.