

EMSL Analytical, Inc. - Microbiology

107 Haddon Ave., Westmont, NJ 08108 Tel: 800-220-3675 Fax: 856-858-0648

Client: Mold Consultant
 1234 Testing Way
 South Jersey, NJ 08003

Attention: Mr. Consultant
Project: 05/18/1903

EMSL Order ID: 370600000
Date Received: 10/10/2006
Date Analyzed: 10/10/2006
Date Reported: 10/10/2006

Fungal Species Identification and Enumeration by Mold Specific Quantitative Polymerase Chain Reaction (MSQPCR) (EMSL Method:M050)

based on USA EPA SOP MERB-020, Revision No. 3, 7/11/02

Lab Sample Number	6793-1		-	-	-	-	-	
Client Sample ID	1		-	-	-	-	-	
Sample Location	Composite dust		-	-	-	-	-	
Sample size	6.6 mg dust		-	-	-	-	-	
EPA 36 Species Identification	Total cells in sample	cells/ mg dust	Total cells in sample	cells/ mg dust	Total cells in sample	cells/ mg dust	Total cells in sample	cells/ mg dust
Group 1								
<i>Aspergillus flavus</i>	ND	ND	-	-	-	-	-	-
<i>Aspergillus fumigatus</i>	ND	ND	-	-	-	-	-	-
<i>Aspergillus niger</i>	502	76	-	-	-	-	-	-
<i>Aspergillus ochraceus</i>	ND	ND	-	-	-	-	-	-
<i>Aspergillus penicillioides</i>	ND	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>	1,879	285	-	-	-	-	-	-
<i>Eurotium (A.) amstelodami</i>	76,535	11,596	-	-	-	-	-	-
<i>Aureobasidium pullulans</i>	72,844	11,037	-	-	-	-	-	-
<i>Chaetomium globosum</i>	73	11	-	-	-	-	-	-
<i>Cladosporium sphaerospermum</i>	ND	ND	-	-	-	-	-	-
<i>Paecilomyces variotii</i>	113	17	-	-	-	-	-	-
<i>Penicillium brevicompactum</i>	ND	ND	-	-	-	-	-	-
<i>Penicillium corylophilum</i>	ND	ND	-	-	-	-	-	-
<i>Penicillium crustosum (group2)</i>	ND	ND	-	-	-	-	-	-
<i>Penicillium purpurogenum</i>	4,386	665	-	-	-	-	-	-
<i>Penicillium spinulosum</i>	ND	ND	-	-	-	-	-	-
<i>Penicillium variabile</i>	965	146	-	-	-	-	-	-
<i>Scopulariopsis brevicaulis</i>	30	4	-	-	-	-	-	-
<i>Scopulariopsis chartarum</i>	512	78	-	-	-	-	-	-
<i>Stachybotrys chartarum</i>	ND	ND	-	-	-	-	-	-
<i>Trichoderma viride</i>	ND	ND	-	-	-	-	-	-
<i>Wallemia sebi</i>	34,476.4	5,224	-	-	-	-	-	-
Sum of the Logs	26.0		-	-	-	-	-	-

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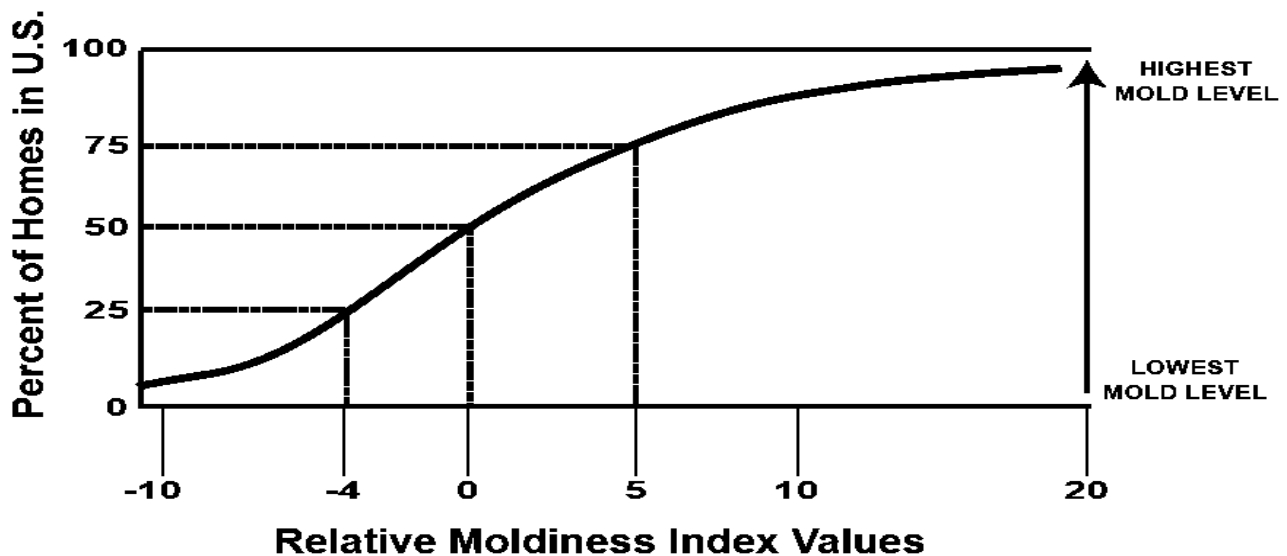
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Group 2								
<i>Acremonium strictum</i>	ND	ND	-	-	-	-	-	-
<i>Alternaria alternata</i>	112	17	-	-	-	-	-	-
<i>Aspergillus ustus</i>	ND	ND	-	-	-	-	-	-
<i>Cladosporium cladosporioides I</i>	7,742	1,173	-	-	-	-	-	-
<i>Cladosporium cladosporioides II</i>	151	23	-	-	-	-	-	-
<i>Cladosporium herbarum</i>	208	31	-	-	-	-	-	-
<i>Epicoccum nigrum</i>	5,291	802	-	-	-	-	-	-
<i>Mucor and Rhizopus group</i>	361	55	-	-	-	-	-	-
<i>Penicillium chrysogenum</i>	ND	ND	-	-	-	-	-	-
<i>Rhizopus stolonifer</i>	ND	ND	-	-	-	-	-	-
Sum of the Logs	11.8		-	-	-	-	-	-
ERMI Value:	14		-	-	-	-	-	-
ERMI Interpretation* (see graph and description below)	Level 4		-	-	-	-	-	-



Approved EMSL Signatory

AIHA EMLAP Lab ID # 100194



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Real-time PCR analysis of molds is performed at EMSL Analytical, Inc. in agreement with the Patent License Agreement between EMSL Analytical, Inc. and the United States Environmental Protection Agency's National Exposure and Research Laboratory-CI as well as the Patent License Agreement between EMSL Analytical, Inc. and Applied Biosystems.

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Based on preliminary data published by the US EPA (chart above), the following ERMI levels can help predict whether an indoor environment is moldy. As research progresses, forthcoming data may change this interpretation and further refine the ERMI.

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

Level 4 = Buildings with an ERMI in the 4th quartile have the greatest likelihood of having a mold problem.

Level 3 = Buildings with an ERMI in the 3rd quartile have a greater likelihood of having a mold problem.

Level 1 & 2 = Buildings with an ERMI in the 1st or 2nd quartile have a low likelihood of having a mold problem.

For further technical information regarding the development of the EPA Relative Moldiness Index© (ERMI) refer to the April 2006 issue of "The Synergist" pages 39-43 or www.epa.gov/iaq

Related published paper: Quantification of *Stachybotrys chartarum* conidia in indoor dust using real time, fluorescent probe-based detection of PCR products. 2001. Jennie D Roe, Richard A Haugland, Stephen J Vesper and Larry J Wymer. JEAEE Vol.11.

Rapid Monitoring by Quantitative Polymerase Chain Reaction for Pathogenic *Aspergillus* During Carpet Removal From a Hospital. 2004. Alice N. Neely, PhD, Vince Gallardo, MS, Ed Barth, MS, Richard A. Haugland, PhD, Glenn D. Warden, MD, and Stephen J. Vesper, PhD. Infection Control and Hospital Epidemiology, Vol. 25.

Quantitative Polymerase Chain Reaction Analysis of Fungi in Dust From Homes of Infants Who Developed Idiopathic Pulmonary Hemorrhaging. 2004. Vesper, Stephen J. PhD; Varma, Manju PhD; Wymer, Larry J. MS; Dearborn, Dorr G. MD, PhD; Sobolewski, John MS; Haugland, Richard A. PhD. Journal of Occupational & Environmental Medicine. 46(6):596-601.