EMSL Analytical, Inc. - Microbiology

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

Client: Homeowner 123 Street City, State Zip Attention: Homeowner Project: House mold test EMSL Order ID: 123456789 Date Received: 01/01/2007 Date Analyzed: 01/01/2007 Date Reported: 01/01/2007

American Relative Moldiness Index by Mold Specific Quantitative Polymerase Chain Reaction (MSQPCR) (EMSL Method:M050)

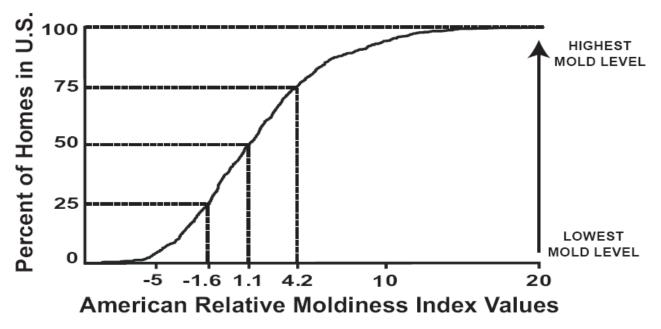
Lab Sample Number	328-1		-		-		-	
Client Sample ID	1		-		-		-	
Sample Location	House composite		-		-		-	
Sample size	0.0849 mg dust		-		-		-	
EPA ARMI 13 Species	Total cells	cells/ mg	Total cells	cells/ m3	Total cells	cells/ m3	Total cells	cells/ m3
Group 1	in sample	dust	in sample	air	in sample	air	in sample	air
Aspergillus niger	ND	ND	-	-	-	-	-	-
Aspergillus ochraceus	ND	ND	-	-	-	-	-	-
Aspergillus penicillioides	142,866	1,682,759	-	-	-	-	-	-
Aspergillus restrictus	124,912	1,471,289	-	-	-	-	-	-
Aspergillus sydowii	ND	ND	-	-	-	-	-	-
Eurotium (A.) amstelodami	16,040	188,927	-	-	-	-	-	-
Chaetomium globosum	ND	ND	-	-	-	-	-	-
Paecilomyces variotii	ND	ND	-	-	-	-	-	-
Penicillium chrysogenum	ND	ND	-	-	-	-	-	-
Wallemia sebi	ND	ND	-	-	-	-	-	-
Sum of the Logs	17.7		-		-		-	

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

EPA ARMI 13 Species	Total cells in sample	cells/ mg dust	Total cells in sample	cells/ m3 air	Total cells in sample	cells/ m3 air	Total cells in sample	cells/ m3 air
Group 2	in sumple	0001	in oumpio	Cili	in oumpio	un	in sumple	uii
Alternaria alternata	ND	ND	-	-	-	-	-	-
Cladosporium cladosporioides I	4,428	52,154	-	-	-	-	-	-
Cladosporium herbarum	ND	ND	-	-	-	-	-	-
Sum of the Logs	4.7		-		-		-	
ERMI Value:	13		-		=		-	
ERMI Interpretation*	Level 4		-		-		-	

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

Approved EMSL Signatory AIHA EMLAP Lab ID # 100194



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

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

Level 4 = Buildings with an ARMI in the 4th quartile have the greatest likelyhood of having a mold problem. Level 3 = Buildings with an ARMI in the 3rd quartile have a greater likelyhood of having a mold problem. Level 2 = Buildings with an ARMI in the 2nd quartile have a lower likelyhood of having a mold problem. Level 1 = Buildings with an ARMI in the 1st quartile have the lowest likelyhood of having a mold problem.

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.

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.

For further technical information regarding the development of the ERMI or ARMI refer to the April 2006 issue of "The Synergist" pages 39-43 or www.epa.gov/iaq

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