

Report for:

**Mr. Quality Control**  
**EMLab P&K (QA)**  
1150 Bayhill Drive  
Suite 100  
San Bruno, CA 94066

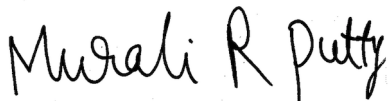
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Regarding: Eurofins EPK Built Environment Testing, LLC  
Project: Sample Report  
EML ID: 1225184

Approved by:

Dates of Analysis:

Quantitative spore count direct exam: 06-24-2014



Technical Manager  
Murali Putty

Service SOPs: Quantitative spore count direct exam (EBET-DE-SOP84096 (formerly EM-MY-S-1041))  
AIHA LAP, LLC accredited service, Lab ID #102856

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

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Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: EMLab P&K (QA)  
 C/O: Mr. Quality Control  
 Re: Sample Report

Date of Sampling: 06-22-2014  
 Date of Receipt: 06-23-2014  
 Date of Report: 06-24-2014

**QUANTITATIVE SPORE COUNT REPORT**

Location:	1		2		3	
Comments (see below)	None		None		None	
Sample type	Bulk sample		Swab sample		Tape sample	
Lab ID-Version‡:	5574593-1		5574594-1		5574595-1	
Analysis Date:	06/24/2014		06/24/2014		06/24/2014	
Dilution	1:1		1:40		1:1	
	raw ct.	spores/unit	raw ct.	spores/unit	raw ct.	spores/unit
Alternaria			1	370		
Ascospores	2	43			2	2
Basidiospores	1	22	2	730	7	7
Bipolaris/Drechslera group						
Botrytis						
Chaetomium			1	370		
Cladosporium	9	200	97	35,000	105	110
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	26	570	31	11,000	160	160
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			3	1,100		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	N/A		2+		2+	
Sample size	1		1		1	
Unit	1 cm2		1 cm2		1 cm2	
<b>§ TOTAL SPORES/UNIT</b>		830		49,000		270

**Comments:**

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

†† Background debris is an indication of the amount of non-biological particulate matter present on the slide (dust in the air) and is graded from 1+ to 4+ with 4+ indicating the largest amounts. This background material is also an indication of visibility for the analyst and resultant difficulty reading the slide. For example, high background debris may obscure the small spores such as the *Penicillium/Aspergillus* group. Counts from areas with 4+ background debris should be regarded as minimal counts and may actually be higher than reported.

Where tape lifts are performed for bulk sample analysis, the unit reported is specific to the area of tape analyzed. Where swabs are performed, the unit reported is specific to the swab analyzed.

Due to the inherent inhomogeneity and variable recovery rates of surface fungal samples, all reported spore counts are extrapolated estimates. Counts of fewer than 400 spores or greater than 40,000 spores are considered imprecise and not reproducible due to limitations in the counting method and equipment sensitivity.

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

§ Total Spores/unit has been rounded to two significant figures to reflect analytical precision.

The limit of detection is 1 spore per area analyzed; Analytical Sensitivity is 1 spore per unit times the dilution factor.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

**Eurofins EPK Built Environment Testing, LLC**  
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(833) 465-5857 www.eurofinsus.com/Built

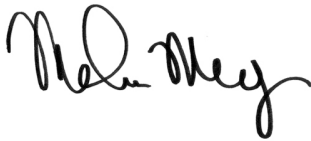
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C/O: Mr. Quality Control  
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**QUANTITATIVE SPORE COUNT REPORT**  
**PROJECT ANALYST AND SIGNATORY REPORT**

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**Project Analyst**



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**Analyst:** Malcolm Moody

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