

Built Environment Testing

Report for:

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

Regarding: Eurofins EPK Built Environment Testing, LLC Project: Sample Report EML ID: 1350490

Approved by:

Technical Manager Ariunaa Jalsrai Dates of Analysis: USP 797 Count & ID 26-30C: 01-20-2016 USP 797 Count & ID 30-35C: 01-20-2016

Service SOPs: USP 797 Count & ID 26-30C (EM-USP-S-2082, EM-USP-S-2081, EM-BT-S-1576), USP 797 Count & ID 30-35C (EM-USP-S-2082, EM-USP-S-2081, EM-BT-S-1576)

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. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Date of Sampling: 01-10-2016 Date of Receipt: 01-15-2016 and 01-20-2016 Date of Report: 01-20-2016

USP 797 - Summary of Sample Analysis Results

The summary information for each sample includes a Pass/Fail result with respect to the USP 797 action level guidelines for concentration of colony forming units (see *Table 1*) and actionable microorganisms (United States Pharmacopeia, 2014). Actionable microorganisms are defined here as Gram-negative bacteria, coagulase-positive Staphylococcus, molds, and yeasts.

Table 1:Recommended Action Levels for Viable Particles in Air and from Surfaces

ISO Class	Active Airborne (cfu*/m3)	Inanimate Surfaces** (cfu/plate)
5	>1	>3
7	>10	>5
8+	>100	>100

* cfu = colony forming units

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C/O: Mr. Quality Control

Re: Sample Report

** Contact plate areas vary from 24 to 30 cm2. When swabbing is used in sampling, the area covered should be at least 24 cm2 but no larger than 30 cm2.

Pass Acceptable concentrations and absence of actionable microorganisms

Fail Unacceptable concentrations and/or presence of actionable microorganisms

N/A Not applicable. Blank Sample, insufficient sample volume and/or no ISO Class area designation provided^{\$}

Location	Media	Туре	Total CFU†	Colony Identification	ISO Class
1:	MEA	Air	< 1	No colonies detected	5
2:	TSA	Air	2	Micrococcus Staphylococcus Coagulase (+)	5
3:	MEA	Air	3	Penicillium	7
4:	TSA	Air	5	Gram-positive cocci Micrococcus	7
13:	MEA	Air	N/A	No colonies detected	None
5:	MEA	Surface	3	Aspergillus ochraceus Yeasts	5
6:	TSA	Surface	3	Bacillus Gram-negative rods	5
7:	MEA	Surface	2	Aspergillus niger Non-sporulating fungi	7
8:	TSA	Surface	ND	No colonies detected	7

[†] The Total CFU value reported in this column is the Total CFU/unit value for the entire sample. For details, refer to the detailed results page of each sample in this report. In order to calculate Total CFU/unit values for air sample types, an air volume must be provided. Air samples without air volumes provided are reported as N/A (Not Applicable). A reported value of ND indicates none detected.

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USP 797 - Summary of Sample Analysis Results

Location	Media	Туре	Total CFU†	Colony Identification	ISO Class
14:	MEA	Surface	ND	No colonies detected	None
9:	MEA	Surface	ND	No colonies detected	5
).	IVIL2/ Y	Burrace	ND		5
10:	TSA	Surface	10	Bacillus Gram-negative rods Micrococcus	5
11:	MEA	Surface	3	Aspergillus niger Cladosporium Penicillium	7
		11			
12:	TSA	Surface	1	Staphylococcus Coagulase (-)	7
15:	MEA	Surface	ND	No colonies detected	None

[†] The Total CFU value reported in this column is the Total CFU/unit value for the entire sample. For details, refer to the detailed results page of each sample in this report. In order to calculate Total CFU/unit values for air sample types, an air volume must be provided. Air samples without air volumes provided are reported as N/A (Not Applicable). A reported value of ND indicates none detected.

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

Location: 1: 2: 3: 4: Comments (see below) None None None None Area Designation **ISO Class 5 ISO Class 5 ISO Class 7 ISO Class 7** Sample type Andersen sample Andersen sample Andersen sample Andersen sample Media used MEA TSA MEA TSA Lot#/Expiration date 123456/8-15-2016 45678/8-15-2016 123456/8-15-2016 45678/8-15-2016 Lab ID-Version[‡]: 6846937-1 6846865-1 6846938-1 6846867-1 Analysis Date 1-20-2016 1-20-2016 1-20-2016 1-20-2016 Incubation 26° - 30°C 30° - 35°C 26° - 30°C 30° - 35°C for 5-7 days for 2-3 days for 5-7 days for 2-3 days raw ct. cfu*/m3 raw ct. cfu*/m3 raw ct. cfu*/m3 raw ct. cfu*/m3 **BACTERIA** Gram-positive cocci 2 2 3 3 Micrococcus 1 1 Staphylococcus Coagulase (+) 1 1 **FUNGI** Penicillium 3 3 §Total ND 2 2 3 3 5 5 < 1 Sample size 1000 liter 1000 liter 1000 liter 1000 liter Positive Hole 400 400 400 400

USP 797 - Detail Sample Analysis Results

*cfu = colony forming units Positive hole correction chart used for all calculations ND = none detected **Comments:**

Identifiers listed without a count or data entry were not detected during the course of the analysis for the respective sample.

Note: Interpretation is left to the company and/or persons who conducted the field work. Some rare strains of Staphylococcus produce free (unbound) coagulase exclusively. The applied coagulase test only measures bound coagulase.

The limit of detection is a raw count of 1. The analytical sensitivity for air samples is equal to 1 raw count divided by sample size and multiplied by the positive hole correction factor. The analytical sensitivity for surface samples is equal to 1 raw count divided by a sample size of 1 plate.

‡ 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".

Eurofins EPK Built Environment Testing, LLC

3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 (866) 871-1984 www.eurofinsus.com/Built

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USP 797 - Detail Sample Analysis Results

Location:	13:					
Comments (see below)	None					
Area Designation	None					
Sample type	Andersen sample					
Media used	MI	EA				
Lot#/Expiration date	123456/8-15-2016					
Lab ID-Version [‡] :	6846939-1					
Analysis Date	1-20-2016					
Incubation	26° - 30°C for 5-7 days					
	raw ct.	cfu*/m3				
§Total	ND	N/A				
Sample size	0 liter					
Positive Hole	400					

*cfu = colony forming units Positive hole correction chart used for all calculations ND = none detected **Comments:**

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Location: 7: 8: 5: 6: Comments (see below) None None None None Area Designation ISO Class 5 **ISO Class 5 ISO Class 7** ISO Class 7 Sample type Contact plate Contact plate Contact plate Contact plate Media used MEA TSA MEA TSA 234567/8-15-0016 567890/8-15-2016 234567/8-15-0016 567890/8-15-2016 Lot#/Expiration date Lab ID-Version[‡]: 6846979-1 6846927-1 6846980-1 6846929-1 Analysis Date 1-20-2016 1-20-2016 1-20-2016 1-20-2016 30° - 35°C 26° - 30°C Incubation 26° - 30°C 30° - 35°C for 2-3 days for 5-7 days for 2-3 days for 5-7 days raw ct. cfu*/plate raw ct. cfu*/plate raw ct. cfu*/plate raw ct. cfu*/plate BACTERIA Bacillus 2 2 Gram-negative rods 1 1 FUNGI Aspergillus ochraceus 2 2 Aspergillus niger 1 1 Yeasts 1 1 Non-sporulating fungi 1 1 3 3 2 2 §Total 3 3 ND ND

USP 797 - Detail Sample Analysis Results

*cfu = colony forming units Comments: ND = none detected

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USP 797 - Detail Sample Analysis Results

	-						1		
Location:	1	4:	9:		10:		11:		
Comments (see below)	No	one	None		None		None		
Area Designation	No	None ISO Class 5		ISO C	Class 5	ISO Class 7			
Sample type	Conta	ct plate	Swab sample		Swab sample		Swab sample		
Media used	M	EĂ	MEA		TSA		MEA		
Lot#/Expiration date	234567/8	8-15-0016	345678/8	8-15-2016	678901/8	678901/8-15-2016			
Lab ID-Version [‡] :	6846	981-1	6847	027-1	6846	999-1	6847028-1		
Analysis Date	1-20	-2016	1-20-	-2016	1-20-2016		1-20-2016		
Incubation	26° -	30°C	26° - 30°C		30° - 35°C		26° - 30°C		
	for 5-	7 days	for 5-7 days		for 2-3 days		for 5-7 days		
	raw ct.	cfu*/plate	raw ct.	cfu*/swab	raw ct.	cfu*/swab	raw ct.	cfu*/swab	
BACTERIA									
Bacillus					5	5			
Gram-negative rods					2	2			
Micrococcus					3	3			
FUNGI									
Aspergillus niger							1	1	
Cladosporium							1	1	
Penicillium							1	1	
§Total	ND	ND	ND	ND	10	10	3	3	
*cfu = colony forming units	ND = none detected								

iy forming i **Comments:**

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USP 797 - Detail Sample Analysis Results

Location:	1	2:	15:			
Comments (see below)	No	one	None			
Area Designation	ISO Class 7		None			
Sample type	Swab	sample	Swab sample			
Media used	TSA		MEA			
Lot#/Expiration date	678901/8-15-2016		345678/8-15-2016			
Lab ID-Version [‡] :	6847001-1		6847029-1			
Analysis Date	1-20-2016		1-20-2016			
Incubation	30° - 35°C for 2-3 days		26° - 30°C for 5-7 days			
	raw ct.	cfu*/swab	raw ct.	cfu*/swab		
BACTERIA						
Staphylococcus Coagulase (-)	1	1				
§Total	1	1	ND	ND		
cfu = colony forming units	ND = none detected					

*cfu = colony forming units **Comments:**

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