

Report for:

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

Eurofins EPK Built Environment Testing, LLC

Regarding: Project: Sample Report EMĹ ID: 1350490

Approved by:

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

Technical Manager Ariunaa Jalsrai

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.

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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

Client: EMLab P&K (QA)

C/O: Mr. Quality Control

Re: Sample Report

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	Performance vs. USP 797 Guidelines‡
1:	MEA	Air	< 1	No colonies detected	5	Pass
2:	TSA	Air	2	Micrococcus Staphylococcus Coagulase (+)	5	Fail
Reason for fail result: Total CFU result	exceeds ac	tion level c	oncentratio	on and actionable microorganism/s	detected	i.
3:	MEA	Air	3	Penicillium	7	Fail
Reason for fail result: Actionable micro	organism/s	detected.				

4:	TSA	Air	5	Gram-positive cocci Micrococcus	7	Pass
13:	MEA	Air	N/A	No colonies detected	None	N/A
5:	MEA	Surface	3	Aspergillus ochraceus Yeasts	5	Fail

Reason for fail result: Actionable microorganism/s detected.

REFERENCE: United States Pharmacopeia and National Formulary Chapter <797> (USP 35-NF 30). Rockville, MD: United States Pharmacopeial Convention; 2014:40-84.

¥ Samples that would otherwise pass in relationship to concentration and actionable microorganisms will always report as N/A when one or more bacterial colonies in the sample are identified as Other Bacteria.

† 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. § Actionable microorganisms reported in Bold font when detected.

‡ As stated in USP 797, the recommended action level table and actionable microorganism list are for guidance purposes only.

^{**} 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.

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USP 797 - Summary of Sample Analysis Results

Location	Media	Туре	Total CFU†	Colony Identification§	ISO Class	Performance vs. USP 797 Guidelines;
6:	TSA	Surface	3	Bacillus Gram-negative rods	5	Fail
Reason for fail result: Actionable micro	organism/s	detected.				
7:	MEA	Surface	2	Aspergillus niger Non-sporulating fungi	7	Fail
Reason for fail result: Actionable micro	organism/s	detected.				
8:	TSA	Surface	ND	No colonies detected	7	Pass
14:	MEA	Surface	ND	No colonies detected	None	N/A
9:	MEA	Surface	ND	No colonies detected	5	Pass
10:	TSA	Surface	10	Bacillus Gram-negative rods Micrococcus	5	Fail
Reason for fail result: Total CFU result	exceeds ac	tion level co	oncentration	on and actionable microorganism/s	detected	l.
11:	MEA	Surface	3	Aspergillus niger Cladosporium Penicillium	7	Fail
Reason for fail result: Actionable micro	organism/s	detected.		•	1	
12:	TSA	Surface	1	Staphylococcus Coagulase (-)	7	Pass
15:	MEA	Surface	ND	No colonies detected	None	N/A

REFERENCE: United States Pharmacopeia and National Formulary Chapter <797> (USP 35-NF 30). Rockville, MD: United States Pharmacopeial Convention; 2014:40-84.

Client: EMLab P&K (QA)

C/O: Mr. Quality Control

Re: Sample Report

[¥] Samples that would otherwise pass in relationship to concentration and actionable microorganisms will always report as N/A when one or more bacterial colonies in the sample are identified as Other Bacteria.

[†] 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 Date of Sampling: 01-10-2016 Date of Receipt: 01-15-2016 Date of Report: 01-20-2016

USP 797 - Detail Sample Analysis Results

Location:	1:		2:		3:		4:	
			·				·	
Comments (see below)	None		None		None		None	
Area Designation	ISO C	Class 5	ISO Class 5		ISO Class 7		ISO Class 7	
Sample type	Anderse	n sample	Anderse	n sample	Anderse	n sample	Anderse	n sample
Media used	M	EA	T	SA	M	EA	TS	SA
Lot#/Expiration date	123456/8	3-15-2016	45678/8	-15-2016	123456/8	3-15-2016	45678/8	-15-2016
Lab ID-Version‡:	6846	937-1	6846	865-1	6846	938-1	6846	867-1
Analysis Date	1-20-	-2016	1-20	-2016	1-20-2016		1-20-2016	
Incubation		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
Micrococcus			1	1			3	3
Staphylococcus Coagulase (+)			1	1				
FUNGI								
Penicillium					3	3		
§Total	ND	< 1	2	2	3	3	5	5
Sample size	1000) liter	1000 liter		1000 liter		1000 liter	
Positive Hole	40	00	40	00	400		400	

*cfu = colony forming units

Positive hole correction chart used for all calculations

ND = none detected

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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".

[§] Total cfu/unit has been rounded to two significant figures to reflect analytical precision.

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USP 797 - Detail Sample Analysis Results

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

*cfu = colony forming units

Positive hole correction chart used for all calculations

ND = none detected

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USP 797 - Detail Sample Analysis Results

Location:	5:		6:		7:		8:	
Comments (see below)	None		None		None		None	
Area Designation	ISO C	Class 5	ISO C	Class 5	ISO Class 7		ISO Class 7	
Sample type	Contac	ct plate	Conta	ct plate	Contact plate		Contact plate	
Media used	M	ΕĀ	T^{s}	SA	M	ΕĀ	TS	SA
Lot#/Expiration date	234567/8	3-15-0016	567890/8	3-15-2016	234567/8	3-15-0016	567890/8	3-15-2016
Lab ID-Version‡:	6846	979-1	6846	927-1	6846	980-1	6846	929-1
Analysis Date	1-20-	-2016	1-20-	-2016	1-20-	-2016	1-20-2016	
Incubation	26° -		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*/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		
§Total	3	3	3	3	2	2	ND	ND

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Comments:

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USP 797 - Detail Sample Analysis Results

Location:	14:		9:		10:		11:	
Comments (see below)	None		None		None		None	
Area Designation	No	one	ISO C	Class 5	ISO Class 5		ISO Class 7	
Sample type	Contac	ct plate	Swab	sample	Swab	sample	Swab sample	
Media used	M	ΕĀ	M	EA	TS	SA	M	EA
Lot#/Expiration date	234567/8	3-15-0016	345678/8	3-15-2016	678901/8	3-15-2016	345678/8	3-15-2016
Lab ID-Version‡:	6846	981-1	6847	027-1	6846	999-1	6847	028-1
Analysis Date	1-20-	-2016	1-20-2016		1-20-2016		1-20-2016	
Incubation		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

Comments:

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USP 797 - Detail Sample Analysis Results

Location:	1	2:	1.	5:	
Comments (see below)	No	one	None		
Area Designation	ISO C	Class 7	None		
Sample type	Swab	sample	Swab sample		
Media used	TS	SA	MEA		
Lot#/Expiration date	678901/8	3-15-2016	345678/8-15-2016		
Lab ID-Version‡:	6847	001-1	6847029-1		
Analysis Date	1-20-	-2016	1-20-2016		
Incubation		35°C 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

Comments:

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