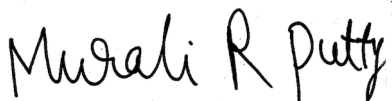


Report for:

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
Murali Putty

Dates of Analysis:
USP 797 Count & ID 26-30C: 04-10-2015
USP 797 Count & ID 33-37C: 04-10-2015

Service SOPs: USP 797 Count & ID 26-30C (EM-USP-S-2082, EM-USP-S-2081, EM-BT-S-1576), USP 797 Count & ID 33-37C (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.

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

Date of Sampling: 04-03-2015
Date of Receipt: 04-03-2015
Date of Report: 04-10-2015

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

** 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	Type	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
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Reason for fail result: Total CFU result exceeds action level concentration and actionable microorganism/s detected.

3:	MEA	Air	3	Penicillium	7	Fail
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Reason for fail result: Actionable microorganism/s detected.

4:	TSA	Air	5	Gram-positive cocci <i>Micrococcus</i>	7	Pass
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5:	MEA	Surface	3	Aspergillus ochraceus Yeasts	5	Fail
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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.

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USP 797 - Summary of Sample Analysis Results

Location	Media	Type	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 microorganism/s detected.

7:	MEA	Surface	2	Aspergillus niger Non-sporulating fungi	7	Fail
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Reason for fail result: Actionable microorganism/s detected.

8:	TSA	Surface	ND	No colonies detected	7	Pass
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9:	MEA	Surface	ND	No colonies detected	5	Pass
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10:	TSA	Surface	10	Bacillus Gram-negative rods Micrococcus	5	Fail
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Reason for fail result: Total CFU result exceeds action level concentration and actionable microorganism/s detected.

11:	MEA	Surface	5	Aspergillus niger Cladosporium Penicillium	7	Fail
-----	-----	---------	---	--	---	------

Reason for fail result: Actionable microorganism/s detected.

12:	TSA	Surface	1	Staphylococcus Coagulase (-)	7	Pass
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13:	MEA	Air	N/A	No colonies detected	None	N/A
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14:	MEA	Surface	ND	No colonies detected	None	N/A
-----	-----	---------	----	----------------------	------	-----

15:	MEA	Surface	ND	No colonies detected	None	N/A
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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.

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Re: Sample Report

Date of Sampling: 04-03-2015
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Date of Report: 04-10-2015

USP 797 - Detail Sample Analysis Results

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	123456/8-25-2015		475869/6-24-2015		123456/8-25-2015		475869/6-24-2015	
Lab ID-Version‡:	6185527-1		6185528-1		6185529-1		6185530-1	
Analysis Date	4-10-2015		4-10-2015		4-10-2015		4-10-2015	
Incubation	26° - 30°C for 5-7 days		33° - 37°C for 2-3 days		26° - 30°C for 5-7 days		33° - 37°C 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	400		400		400		400	

*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".

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

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 Date of Report: 04-10-2015

USP 797 - Detail Sample Analysis Results

Location:	13:	
Comments (see below)	None	
Area Designation	None	
Sample type	Andersen sample	
Media used	MEA	
Lot#/Expiration date	123456/8-25-2015	
Lab ID-Version‡:	6185542-1	
Analysis Date	4-10-2015	
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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Date of Report: 04-10-2015

USP 797 - Detail Sample Analysis Results

Location:	5:		6:		7:		8:	
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	
Lot#/Expiration date	258369/6-25-2015		142536/6-13-2015		258369/6-25-2015		142536/6-13-2015	
Lab ID-Version‡:	6185531-1		6185532-1		6185533-1		6185534-1	
Analysis Date	4-10-2015		4-10-2015		4-10-2015		4-10-2015	
Incubation	26° - 30°C for 5-7 days		33° - 37°C for 2-3 days		26° - 30°C for 5-7 days		33° - 37°C 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

*cfu = colony forming units

ND = none detected

Comments:

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USP 797 - Detail Sample Analysis Results

Location:	9:		10:		11:		12:	
Comments (see below)	None		None		None		None	
Area Designation	ISO Class 5		ISO Class 5		ISO Class 7		ISO Class 7	
Sample type	Swab sample		Swab sample		Swab sample		Swab sample	
Media used	MEA		TSA		MEA		TSA	
Lot#/Expiration date	789456/6-15-2015		461379/7-19-2015		789456/6-15-2015		461379/7-19-2015	
Lab ID-Version‡:	6185535-1		6185536-1		6185537-1		6185538-1	
Analysis Date	4-10-2015		4-10-2015		4-10-2015		4-10-2015	
Incubation	26° - 30°C for 5-7 days		33° - 37°C for 2-3 days		26° - 30°C for 5-7 days		33° - 37°C for 2-3 days	
	raw ct.	cfu*/swab	raw ct.	cfu*/swab	raw ct.	cfu*/swab	raw ct.	cfu*/swab
BACTERIA								
Bacillus			5	5				
Gram-negative rods			3	3				
Micrococcus			2	2				
Staphylococcus Coagulase (-)							1	1
FUNGI								
Aspergillus niger					1	1		
Cladosporium					2	2		
Penicillium					2	2		
§Total	ND	ND	10	10	5	5	1	1

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ND = none detected

Comments:

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Date of Sampling: 04-03-2015
Date of Receipt: 04-03-2015
Date of Report: 04-10-2015

USP 797 - Detail Sample Analysis Results

Location:	14:		15:	
Comments (see below)	None		None	
Area Designation	None		None	
Sample type	Contact plate		Swab sample	
Media used	MEA		MEA	
Lot#/Expiration date	258369/6-25-2015		789456/6-15-2015	
Lab ID-Version‡:	6185543-1		6185550-1	
Analysis Date	4-10-2015		4-10-2015	
Incubation	26° - 30°C for 5-7 days		26° - 30°C for 5-7 days	
	raw ct.	cfu*/plate	raw ct.	cfu*/swab
§Total	ND	ND	ND	ND

*cfu = colony forming units

ND = none detected

Comments:

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