Hygiene Surface Monitoring (HYGIENE) Main Report

HY347 Round 347

Issue Number: 1

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LGC Proficiency Testing

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Scheme Information

Aims Of Scheme

The primary aim of the Environmental Hygiene Monitoring Proficiency Testing Scheme (HYGIENE) is to enable laboratories performing workplace environmental monitoring of surfaces to monitor their performance and compare it with that of their peers. HYGIENE also aims to provide information to participants on technical issues and methodologies relating to microbiological workplace testing.

Performance Assessment
Once a PT round has closed, the results will be analysed and the assigned value determined for each analyte, according to the criteria provided in the Scheme Description. Information regarding the traceability of each calculated assigned value is also provided in the Scheme Description.

For quantitative data, the participant's result, x, (or $\log_{10}$ x for microbiological data) is converted into a z score using the following formula;

$$z = \frac{(x - X)}{SDPA}$$

X = Assigned value
SDPA = Standard deviation for proficiency assessment

For quantitative data, the uncertainty of the assigned value is calculated to ensure that it would have a negligible effect on participants' performance scores. If the uncertainty of the assigned value is greater than 0.3 x SDPA, then this is not considered negligible. In this situation, a z' (z prime) performance score is automatically calculated rather than a z score, in order to take account of the measurement uncertainty of the assigned value. The z' score is calculated using the following formula;

$$z' = \frac{(x - X)}{\sqrt{SDPA^2 + u(x_{pt})^2}}$$

X = Assigned value
SDPA = Standard deviation for proficiency assessment
$u(x_{pt})$= Uncertainty of the assigned value

$$Expanded\ SDPA = \sqrt{SDPA^2 + u(x_{pt})^2}$$

Trend graphs will use a mixture of z and z' scores, i.e. the 'performance score' for the round.

For quantitative data, gross errors or blunders are removed from the data by removal of any results that are greater than the assigned value ± 5 x SDPA. These results are not used in the final calculation of the assigned value and other summary statistics and will be included in the number of 'Excluded Results'. All results, including excluded results, will be given a performance score.

For the purposes of performance assessment for a single round, z and z' scores are interpreted as follows:

z/z' score	Interpretation	Colour coding
|z| ≤ 2.00	Satisfactory result	Green
2.00 < |z| and < 3.00	Questionable result	Amber
|z| ≥ 3.00	Unsatisfactory result	Red
No score given	See below	No colour coding

Performance scores will not be given for the following:

- For qualitative results, where satisfactory performance is based on the participants reporting the same result as the assigned result. E.g. detected, not detected. For these results, colour coding of green (satisfactory) or red (unsatisfactory) will apply.
- For results of zero; such a result is not normally appropriate and should not be reported, the result should be reported as less than the detection limit rather than zero
    - Note: for a very small number of analytes it may be appropriate to report a result of zero, depending on the type of measurement scale being used.
- For quantitative results where the analyte under test is present in the test material but participants report zero results or greater than results. In these cases, it is not possible to allocate a performance score and participants should assess their performance based on the assigned value and satisfactory range given.

- For quantitative results where the analyte under test is present in the test material but participants report a ‘less than’ value. In these cases, it is not possible to allocate a numeric performance score, however, where the ‘less than’ value reported is < (AV-3*SDPA) the ‘less than’ value will be assessed as unsatisfactory (red colour coding), where the less than value reported is between < (AV-3*SDPA) and < (AV-2*SDPA), or > (AV+2*SDPA) the assessment will be questionable (orange colour coding) and it is recommend that you assess whether the method used is fit for purpose, and where the less than value reported is between (AV-2*SDPA and AV+2*SDPA) a satisfactory assessment (green colour coding) will be given as such results are deemed to be consistent with the assigned value.
- For quantitative results, for microbiological test materials, where the analyte under test is not present in the test material, the assigned value will be classified as ‘Absent’. Results reported as ‘less than’ at or below the detection level for our method of confirmation will be assessed as satisfactory (green colour code). Results reported at a higher detection level will not be assessed and participants will need to use their own judgement to determine whether their result is fit for its intended use. Results reporting a positive count will be assessed as unsatisfactory (red colour code).
- For quantitative results, for chemistry or clinical test materials, where the analyte under test has not been spiked into the test material, the assigned value will be classified as ‘Zero Spike’. A ‘less than’ value reported at or below the detection level, set as the assigned value, will be assessed as satisfactory (green colour code). A ‘less than’ value reported above the detection level will not be assessed and participants will need to use their own judgement to determine whether their result is fit for its intended use. Positive, numeric, results which are below the detection level, set as the assigned value, will not be assessed, whilst those that are greater than the assigned value will be assessed as unsatisfactory (red colour code).

In some cases, performance scores may not be provided or may be provided but with colour coding suspended (indicating that scores need to be interpreted with caution). For example:

- For small data sets where less than 8 results have been submitted and the assigned value is derived using a consensus value from the participants’ results. In these circumstances, there may be increased uncertainty of the assigned value, given the low number of participants, and performance scores will be given for information only.
- In cases where the distribution of the results gives cause for concern e.g. bi-modal data sets. These circumstances will be dependent on the statistical design that is in place.
- If the assigned value falls below a concentration threshold (only applies to some schemes).
- In these or similar circumstances, further explanation as to the reasons for suspension of performance scoring or colour coding, and on the interpretation of results, will be given in the report.

Note: Data displayed in the report will have been rounded to the required number of decimal places. However statistical calculations will have been performed on unrounded data. For this reason, there may appear to be differences between displayed data and calculated data, but this does not affect results in any way.

Method distribution charts

Results which have been classified as gross errors or blunders are truncated for display purposes on this chart. The dotted lines on the graph show the minimum or maximum values for results which will be displayed without truncation. Where results are truncated they are displayed with a value of the min/max limit +/- half of the applicable SDPA. If no dotted line is present this indicates that there are no gross errors or blunders to plot.

Confidentiality

A unique laboratory reference code is used to report results in order to ensure confidentiality.

Contact details

The Technical Scheme Coordinator is Thomas Ashcroft.

Please contact **axiopt@lgcgroup.com** if you have any questions or comments regarding the scheme.

Report Authorisation

This report was authorised and electronically signed by: Alexandra Eden - Lead Technical Manager on 2025-05-07T10:38:09.069319450

Sample Details

Samples were despatched: 24 March 2025

Reporting Deadline Date: 28 April 2025

The following samples were distributed in HYGIENE Round 347:

Sample	Matrix	Contents	Level (Presence/Absence)	Further Information
1	Plastic surface & lyophilised tablet	*Escherichia coli* *Rhodotorula mucilaginosa* *Penicillium chrysogenum*		
2	Plastic surface & lyophilised tablet	*Listeria monocytogenes* *Salmonella* Livingstone	670 cfu/200µl 729 cfu/200µl	 O:7 (C_1)
3	Plastic surface & lyophilised tablet	*Pseudomonas aeruginosa*		
5A	Lyophilised tablet	*Candida albicans*		
5B	Lyophilised tablet	Blank		
6	Plastic surface & lyophilised tablet	*Candida albicans* *Penicillium commune*		
7	Plastic surface & lyophilised tablet	*Staphylococcus aureus*		
9	Membrane filter	*Rothia kristinae* *Wickerhamomyces anomalus*		
10	Lyophilised tablet & diluent	*Escherichia coli* *Klebsiella aerogenes* *Candida albicans* *Aspergillus brasiliensis*		
11	Lyophilised tablet & diluent	*Listeria monocytogenes* *Salmonella* Senegal *Escherichia coli* O157 Non-toxigenic	77 cfu/ml 20 cfu/ml 129 cfu/ml	 O:11 (F)

Further information regarding assigned values, performance assessment and technical comments can be found under the individual sample and analyte results.

Quality Control

All homogeneity assessments have been conducted in accordance with the principles stipulated in ISO 13528 [1] and the IUPAC [2] Harmonized PT Protocol. Further details regarding the assessment of homogeneity can be found in the LGC Proficiency Testing General Protocol.

Sample	Analyte/Test	Method	Result
1	Total viable count	PCA PP 30	Pass
2	*Salmonella* species	OBOP	Pass
	Listeria species detection	OBOP	Pass
	Listeria monocytogenes detection	OBOP	Pass
3	Total viable count	NA SP 30	Pass
5A	Yeast	DRBC SP 25	Pass
5B	Total viable count	NA SP 30	Pass
6	Yeast	DRBC SP 25	Pass
	Mould	DRBC SP 25	Pass
7	Total viable count	PCA PP 30	Pass
9	Total viable count	PCA PP 30	Pass
	Yeast	DRBC SP 25	Pass
10	Total viable count	PCA PP 30	Pass
11	Total viable count	PCA PP 30	Pass

For quantitative testing, one-way ANOVA is used to estimate the analytical and sampling variance. For the sample to be considered sufficiently homogeneous for use in the PT scheme, the calculated sampling variance must be less than a critical value calculated according to the procedure described in the ISO 13528 [1].

For qualitative testing, the target analyte must be detected in 100% of test materials analysed.

*The production and homogeneity testing for sample 8 is subcontracted to an alternative provider. The results of these analyses and homogeneity are approved by LGC Standards Proficiency Testing.

For any analyte which has not been proven to be sufficiently homogeneous, and any closely related analytes, the value set for the SDPA may be suspended in order to take account of any potential inhomogeneity. The actual value used for the standard deviation for proficiency assessment is shown at the foot of the results and z-score tables in this report.

Often a particular test material does not require homogeneity assessment prior to distribution. Such sample types include standard solutions and aqueous solutions.

Test materials provided under the LGC scope of accreditation are assessed to ensure that they are sufficiently stable for the duration of the PT round. If test materials are subsequently shown to have changed significantly through the time of the PT round either, the effect of the instability will be quantified and taken into account in the performance evaluation or participant performance will not be evaluated.

[1] ISO 13528 (2022), ‘Statistical methods for use in proficiency testing by inter-laboratory comparison’.

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	Plate count agar	5150	3.71	0.34
HY0029	Plate count agar	3280	3.52	-0.21
HY0036	Plate count agar	5910	3.77	0.52
HY0037	Plate count agar	4500	3.65	0.18
HY0045	Plate count agar	2355	3.37	-0.63
HY0048	Plate count agar	6455	3.81	0.63
HY0054	Plate count agar	27025	4.43	2.40
HY0077	Other	1600	3.20	-1.11
HY0087	Plate count agar	4000	3.60	0.03
HY0106	Plate count agar	2200	3.34	-0.71
HY0158	Plate count agar	3140	3.50	-0.27
HY0162	Plate count agar	7966	3.90	0.89
HY0169	Plate count agar	2600	3.41	-0.50
HY0170	Plate count agar	3500	3.54	-0.13
HY0183	Plate count agar	615	2.79	-2.29
HY0184	Plate count agar	2800	3.45	-0.41
HY0222	Other	4450	3.65	0.16
HY0245	Plate count agar	4500	3.65	0.18
HY0253	Plate count agar	5100	3.71	0.33
HY0297	Other	409	2.61	-2.80
HY0301	Plate count agar	1600	3.20	-1.11
HY0324	Plate count agar	4200	3.62	0.09
HY0326	Plate count agar	15200	4.18	1.69
HY0328	Plate count agar	3500	3.54	-0.13
HY0338	Petrifilm	2650	3.42	-0.48
HY0351	Plate count agar	4400	3.64	0.15
HY0369	Plate count agar	5600	3.75	0.45
HY0370	Plate count agar	2600	3.41	-0.50
HY0380	Other	284	2.45	-3.25
HY0389	Petrifilm	3200	3.51	-0.25
HY0396	Plate count agar	3500	3.54	-0.13
HY0403	Petrifilm	1000	3.00	-1.69
HY0403	Other	830	2.92	-1.92
HY0411	Plate count agar	5000	3.70	0.31
HY0446	Plate count agar	>200		
HY0457	Other	4100	3.61	0.06
HY0467	Plate count agar	720	2.86	-2.10
HY0476	Plate count agar	4000	3.60	0.03
HY0476	Petrifilm	4100	3.61	0.06
HY0485	Plate count agar	58200	4.76	3.35
HY0493	Petrifilm	3800	3.58	-0.03
HY0499	Plate count agar	5000	3.70	0.31
HY0516	Plate count agar	4090	3.61	0.06
HY0516	Petrifilm	4100	3.61	0.06
HY0516	Other	4100	3.61	0.06
HY0526	Plate count agar	7300	3.86	0.78
HY0544	Plate count agar	4400	3.64	0.15
HY0572	Other	870	2.94	-1.86
HY0602	Plate count agar	1000	3.00	-1.69
HY0604	Other	293	2.47	-3.21

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0629	Plate count agar	8500	3.93	0.97
HY0655	Plate count agar	4600	3.66	0.20
HY0693	Plate count agar	3520	3.55	-0.13
HY0697	Plate count agar	3400	3.53	-0.17
HY0715	Plate count agar	19000	4.28	1.96
HY0719	Plate count agar	3000	3.48	-0.33
HY0737	Plate count agar	4200	3.62	0.09
HY0739	Plate count agar	3850	3.59	-0.02
HY0740	Plate count agar	6100	3.79	0.56
HY0750	Plate count agar	2600	3.41	-0.50
HY0755	Petrifilm	412	2.61	-2.79
HY0758	Other	5380	3.73	0.40
HY0765	Plate count agar	4000	3.60	0.03
HY0765	Other	1800	3.26	-0.96
HY0779	Plate count agar	6227	3.79	0.58
HY0786	Plate count agar	3900	3.59	0.00
HY0786	Petrifilm	3700	3.57	-0.07
HY0789	Plate count agar	3100	3.49	-0.28
HY0830	Plate count agar	4073	3.61	0.05
HY0844	Plate count agar	5200	3.72	0.36
HY0845	Plate count agar	11600	4.06	1.35
HY0852	Plate count agar	710	2.85	-2.11
HY0859	Plate count agar	5000	3.70	0.31
HY0876	Plate count agar	4700	3.67	0.23
HY0890	Plate count agar	3040	3.48	-0.31
HY0898	Plate count agar	18000	4.26	1.90
HY0918	Petrifilm	81	1.91	-4.81
HY0924	Petrifilm	23000	4.36	2.20
HY0950	Plate count agar	10000	4.00	1.17
HY0952	Petrifilm	28	1.45	-6.13
HY0969	Petrifilm	56	1.75	-5.27
HY0977	Petrifilm	250	2.40	-3.41
HY0994	Petrifilm	4704	3.67	0.23
HY0995	Petrifilm	>250		
HY0996	Petrifilm	9100	3.96	1.05
HY0997	Petrifilm	4066	3.61	0.05
HY1000	Petrifilm	4860	3.69	0.27
HY1003	Petrifilm	78	1.89	-4.85
HY1011	Plate count agar	4000	3.60	0.03
HY1011	Other	3800	3.58	-0.03
HY1015	Petrifilm	2800	3.45	-0.41
HY1017	Plate count agar	2900	3.46	-0.37
HY1018	Plate count agar	410	2.61	-2.80
HY1020	Plate count agar	3740	3.57	-0.05
HY1021	Plate count agar	8	0.90	-7.68
HY1022	Plate count agar	310	2.49	-3.14
HY1049	Plate count agar	7600	3.88	0.83
HY1061	Plate count agar	4900	3.69	0.28
HY1067	Plate count agar	4100	3.61	0.06
HY1074	Plate count agar	6500	3.81	0.63
HY1076	Plate count agar	4360	3.64	0.14

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1082	Petrifilm	96	1.98	-4.60
HY1087	Petrifilm	260	2.41	-3.36
HY1092	Other	5900	3.77	0.51
HY1105	Plate count agar	4600	3.66	0.20
HY1106	Plate count agar	3800	3.58	-0.03
HY1123	Plate count agar	4350	3.64	0.14
HY1125	Other	5461	3.74	0.42
HY1132	Plate count agar	195	2.29	-3.72
HY1148	Plate count agar	2800	3.45	-0.41
HY1166	Plate count agar	9500	3.98	1.10
HY1171	Plate count agar	2104	3.32	-0.77
HY1213	Plate count agar	6273	3.80	0.59
HY1225	Plate count agar	2390	3.38	-0.61
HY1232	Petrifilm	541	2.73	-2.45
HY1233	Petrifilm	455	2.66	-2.67
HY1239	Plate count agar	4500	3.65	0.18
HY1242	Petrifilm	260	2.41	-3.36
HY1242	Other	240	2.38	-3.46
HY1243	Other	3000	3.48	-0.33
HY1246	Plate count agar	3200	3.51	-0.25
HY1249	Other	5160	3.71	0.35
HY1263	Plate count agar	4000	3.60	0.03
HY1274	Plate count agar	120	2.08	-4.32
HY1276	Plate count agar	4272	3.63	0.11
HY1284	Petrifilm	48	1.68	-5.46
HY1285	Plate count agar	1550	3.19	-1.14
HY1288	Plate count agar	29500	4.47	2.51
HY1292	Plate count agar	4100	3.61	0.06
HY1295	Plate count agar	350	2.54	-2.99
HY1306	Plate count agar	3280	3.52	-0.21
HY1334	Petrifilm	220	2.34	-3.57
HY1394	Petrifilm	1000	3.00	-1.69
HY1409	Plate count agar	3650	3.56	-0.08
HY1411	Plate count agar	5300	3.72	0.38
HY1471	Plate count agar	3700	3.57	-0.07
HY1491	Other	2820	3.45	-0.40
HY1495	Plate count agar	2070	3.32	-0.79
HY1498	Plate count agar	4400	3.64	0.15
HY1511	Plate count agar	2977	3.47	-0.34
HY1513	Plate count agar	5000	3.70	0.31
HY1515	Other	3400	3.53	-0.17
HY1530	Plate count agar	831	2.92	-1.92
HY1552	Plate count agar	4100	3.61	0.06
HY1563	Other	2970	3.47	-0.34
HY1566	Plate count agar	250	2.40	-3.41
HY1586	Other	5000	3.70	0.31
HY1599	Plate count agar	6800	3.83	0.69
HY1627	Petrifilm	33000	4.52	2.65
HY1641	Plate count agar	19000	4.28	1.96
HY1653	Other	>300		
HY1666	Plate count agar	750	2.88	-2.05

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1678	Petrifilm	4054	3.61	0.05
HY1681	Plate count agar	28000	4.45	2.45
HY1684	Plate count agar	3391	3.53	-0.17
HY1690	Plate count agar	1400	3.15	-1.27
HY1699	Plate count agar	4100	3.61	0.06
HY1701	Petrifilm	330	2.52	-3.06
HY1706	Plate count agar	3700	3.57	-0.07
HY1712	Plate count agar	26500	4.42	2.38
HY1766	Plate count agar	400	2.60	-2.83
HY1788	Plate count agar	3764	3.58	-0.04
HY1844	Plate count agar	3200	3.51	-0.25
HY1857	Plate count agar	7400	3.87	0.79
HY1880	Plate count agar	3600	3.56	-0.10
HY1902	Plate count agar	1000	3.00	-1.69
HY1950	Petrifilm	58	1.76	-5.22
HY1976	Plate count agar	3900	3.59	0.00
HY2101	Plate count agar	5050	3.70	0.32
HY2116	Plate count agar	17600	4.25	1.87
HY2121	Plate count agar	160	2.20	-3.96
HY2123	Plate count agar	7100	3.85	0.74
HY2124	Plate count agar	5400	3.73	0.40
HY2125	Plate count agar	4600	3.66	0.20
HY2128	Plate count agar	5090	3.71	0.33
HY2131	Plate count agar	8500	3.93	0.97
HY2150	Other	280	2.45	-3.27
HY2310	Plate count agar	4900	3.69	0.28
HY2312	Plate count agar	3945	3.60	0.01
HY2327	Plate count agar	38000	4.58	2.82
HY2333	Plate count agar	3600	3.56	-0.10
HY2360	Plate count agar	236	2.37	-3.48
HY2400	Plate count agar	339	2.53	-3.03
HY2402	Plate count agar	12200	4.09	1.42
HY2405	Plate count agar	5000	3.70	0.31
HY2407	Plate count agar	4273	3.63	0.11
HY2410	Plate count agar	3950	3.60	0.02
HY2411	Plate count agar	528	2.72	-2.48
HY2412	Plate count agar	310	2.49	-3.14
HY2413	Plate count agar	5397	3.73	0.40
HY2462	Plate count agar	1300	3.11	-1.36
HY2464	Petrifilm	4000	3.60	0.03
HY2477	Plate count agar	2400	3.38	-0.60
HY2478	Plate count agar	394	2.60	-2.84
HY2514	Plate count agar	3800	3.58	-0.03
HY2550	Petrifilm	90	1.95	-4.68
HY2617	Other	<1		
HY2641	Petrifilm	50	1.70	-5.41
HY2650	Plate count agar	39000	4.59	2.86
HY2658	Other	263	2.42	-3.35
HY2679	Plate count agar	930	2.97	-1.78
HY2682	Plate count agar	3100	3.49	-0.28
HY2690	Plate count agar	100	2.00	-4.55

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2690	Petrifilm	60	1.78	-5.18
HY2695	Plate count agar	4100	3.61	0.06
HY2702	Plate count agar	3500	3.54	-0.13
HY2716	Petrifilm	4900	3.69	0.28
HY2716	Other	4900	3.69	0.28
HY2742	Plate count agar	1200	3.08	-1.46
HY2748	Plate count agar	5000	3.70	0.31
HY2756	Plate count agar	250000	5.40	5.16
HY2782	Plate count agar	6100	3.79	0.56
HY2802	Plate count agar	4280	3.63	0.12
HY2807	Plate count agar	1100	3.04	-1.57
HY2809	Plate count agar	4000	3.60	0.03
HY2821	Plate count agar	2300	3.36	-0.66
HY2823	Plate count agar	4900	3.69	0.28
HY2834	Plate count agar	1200	3.08	-1.46
HY2841	Other	24000	4.38	2.25
HY2842	Plate count agar	5000	3.70	0.31
HY2852	Other	3200	3.51	-0.25
HY2856	Plate count agar	4500	3.65	0.18
HY2857	Plate count agar	220	2.34	-3.57
HY2863	Plate count agar	4000	3.60	0.03
HY2866	Petrifilm	188	2.27	-3.76
HY2872	Plate count agar	5200	3.72	0.36
HY2894	Plate count agar	4182	3.62	0.09
HY2895	Plate count agar	19000	4.28	1.96
HY2896	Plate count agar	1200	3.08	-1.46
HY2896	Other	4500	3.65	0.18
HY2904	Plate count agar	2800	3.45	-0.41
HY2907	Petrifilm	375	2.57	-2.91
HY2912	Plate count agar	21000	4.32	2.09
HY2913	Plate count agar	4400	3.64	0.15
HY2918	Plate count agar	4800	3.68	0.26
HY2918	Other	3000	3.48	-0.33
HY2923	Plate count agar	170	2.23	-3.89
HY2929	Plate count agar	121	2.08	-4.31
HY2931	Plate count agar	2700	3.43	-0.46

Quantitative Statistics

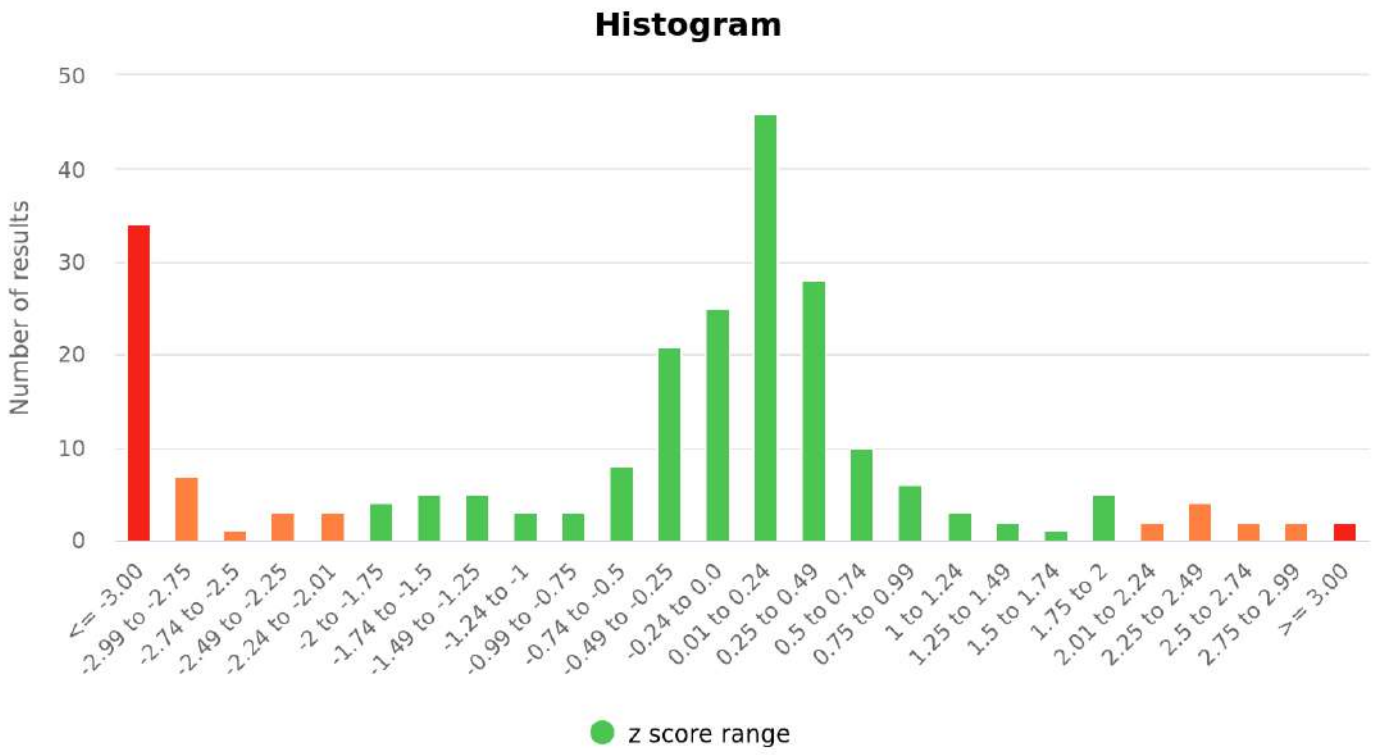
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	3.59	0.02	0.35	N/A	2.89 to 4.29	74.5%	10.2%	15.3%
	cfu/200µl	3900	N/A	N/A	N/A	778 to 19546	74.5%	10.2%	15.3%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	239	12	3.42	3.59	0.56	0.21	1.89 to 4.76
	cfu/200µl	239	12	N/A	N/A	N/A	N/A	78 to 58200

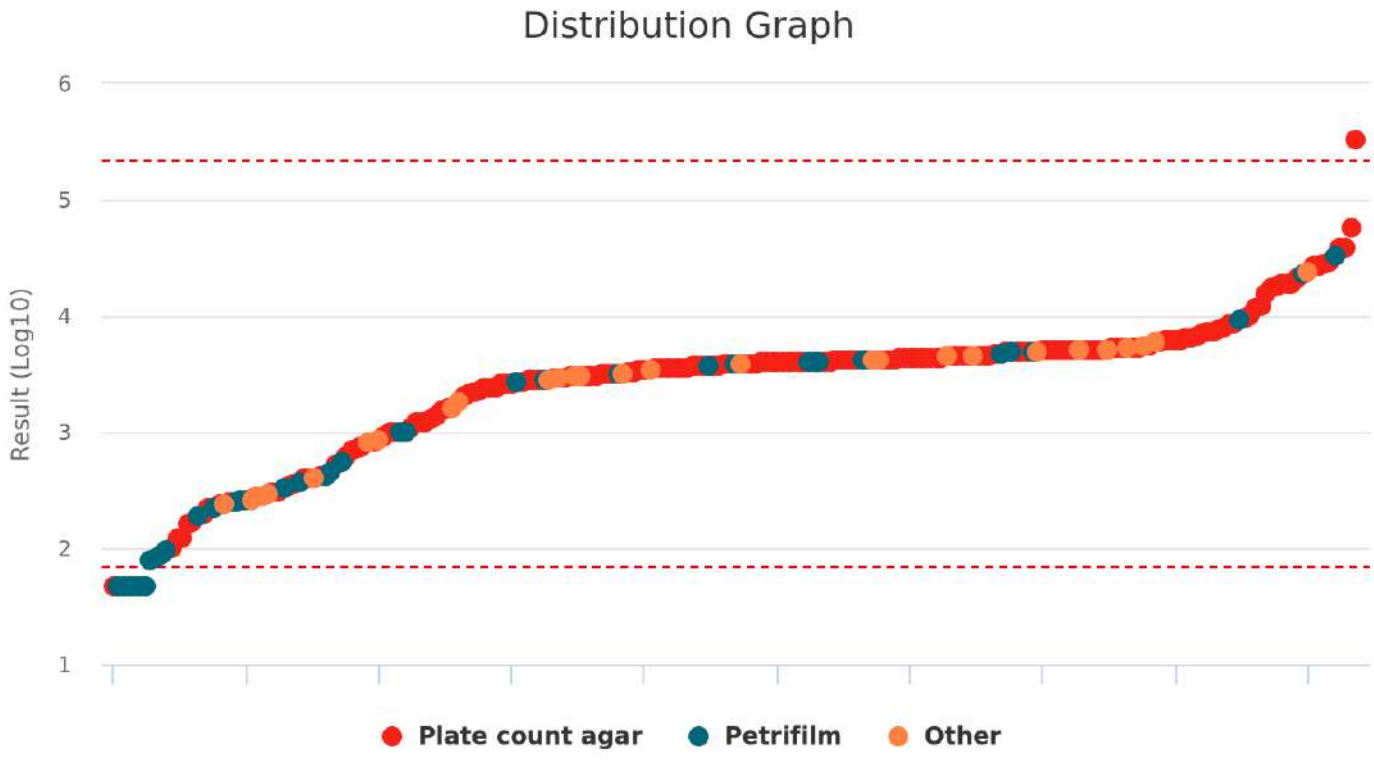
Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
Other	30	2	13	Log10	3.49	0.339	2.38 to 4.38	75.0	7.1	17.9
Petrifilm	39	7	16	Log10	3.21	0.765	1.89 to 4.52	42.1	15.8	42.1
Plate count agar	170	3	71	Log10	3.60	0.193	2.00 to 4.76	81.7	9.5	8.9

Sample: 1 - Surface testing using swabbing techniques

Analyte: Total aerobic mesophilic count (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	Plate count agar	925	2.97	0.09
HY0007	Plate count agar	700	2.85	-0.10
HY0029	Plate count agar	1600	3.20	0.48
HY0036	Plate count agar	2450	3.39	0.78
HY0042	Plate count agar	70	1.85	-1.72
HY0045	Plate count agar	50	1.70	-1.96
HY0048	Plate count agar	1027	3.01	0.17
HY0054	Plate count agar	90	1.95	-1.54
HY0058	Plate count agar	2600	3.41	0.82
HY0077	Other	1800	3.26	0.56
HY0087	Plate count agar	700	2.85	-0.10
HY0106	Plate count agar	800	2.90	-0.01
HY0158	Plate count agar	545	2.74	-0.28
HY0162	Plate count agar	2409	3.38	0.77
HY0169	Plate count agar	1100	3.04	0.21
HY0170	Plate count agar	500	2.70	-0.34
HY0183	Plate count agar	176	2.25	-1.07
HY0184	Plate count agar	2100	3.32	0.67
HY0222	Other	1210	3.08	0.28
HY0245	Plate count agar	550	2.74	-0.27
HY0247	Plate count agar	1900	3.28	0.60
HY0253	Plate count agar	1500	3.18	0.43
HY0256	Plate count agar	1200	3.08	0.28
HY0256	Other	1000	3.00	0.15
HY0263	Plate count agar	10	1.00	-3.09
HY0264	Plate count agar	3090	3.49	0.94
HY0297	Other	<10		
HY0301	Plate count agar	1000	3.00	0.15
HY0307	Plate count agar	240	2.38	-0.85
HY0324	Plate count agar	4500	3.65	1.20
HY0326	Plate count agar	800	2.90	-0.01
HY0328	Plate count agar	1273	3.10	0.32
HY0338	Petrifilm	1300	3.11	0.33
HY0344	Plate count agar	<10		
HY0351	Plate count agar	1200	3.08	0.28
HY0369	Plate count agar	1700	3.23	0.52
HY0370	Plate count agar	650	2.81	-0.15
HY0380	Other	137	2.14	-1.25
HY0389	Petrifilm	2100	3.32	0.67
HY0396	Plate count agar	900	2.95	0.07
HY0403	Petrifilm	300	2.48	-0.70
HY0403	Other	250	2.40	-0.83
HY0411	Plate count agar	670	2.83	-0.13
HY0417	Plate count agar	1300	3.11	0.33
HY0417	Other	450	2.65	-0.41
HY0446	Plate count agar	>200		
HY0457	Other	20	1.30	-2.60
HY0467	Plate count agar	270	2.43	-0.77
HY0476	Plate count agar	1000	3.00	0.15
HY0476	Petrifilm	1100	3.04	0.21

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0485	Plate count agar	12200	4.09	1.90
HY0493	Other	89	1.95	-1.55
HY0499	Plate count agar	1980	3.30	0.63
HY0526	Plate count agar	1190	3.08	0.27
HY0543	Plate count agar	1400	3.15	0.38
HY0544	Plate count agar	1900	3.28	0.60
HY0544	Other	1500	3.18	0.43
HY0572	Other	240	2.38	-0.85
HY0602	Plate count agar	130	2.11	-1.28
HY0604	Other	13	1.11	-2.90
HY0605	Plate count agar	2600	3.41	0.82
HY0605	Petrifilm	1700	3.23	0.52
HY0605	Other	2100	3.32	0.67
HY0626	Other	7500	3.88	1.56
HY0629	Plate count agar	2900	3.46	0.90
HY0655	Plate count agar	1300	3.11	0.33
HY0693	Plate count agar	143	2.16	-1.22
HY0697	Plate count agar	790	2.90	-0.02
HY0715	Plate count agar	5800	3.76	1.38
HY0719	Plate count agar	700	2.85	-0.10
HY0737	Plate count agar	1300	3.11	0.33
HY0739	Plate count agar	800	2.90	-0.01
HY0740	Plate count agar	1800	3.26	0.56
HY0750	Plate count agar	3500	3.54	1.03
HY0755	Petrifilm	40	1.60	-2.11
HY0758	Other	60	1.78	-1.83
HY0765	Plate count agar	2100	3.32	0.67
HY0765	Other	1100	3.04	0.21
HY0779	Plate count agar	91	1.96	-1.53
HY0786	Petrifilm	790	2.90	-0.02
HY0789	Plate count agar	7400	3.87	1.55
HY0789	Petrifilm	7400	3.87	1.55
HY0830	Plate count agar	85	1.93	-1.58
HY0844	Plate count agar	1400	3.15	0.38
HY0845	Plate count agar	174000	5.24	3.77
HY0852	Plate count agar	43	1.63	-2.06
HY0859	Plate count agar	1500	3.18	0.43
HY0876	Plate count agar	1300	3.11	0.33
HY0890	Petrifilm	625	2.80	-0.18
HY0893	Petrifilm	<10000.0		
HY0898	Plate count agar	2000	3.30	0.63
HY0916	Petrifilm	80	1.90	-1.63
HY0918	Petrifilm	20	1.30	-2.60
HY0924	Petrifilm	120	2.08	-1.34
HY0950	Plate count agar	5000	3.70	1.28
HY0952	Petrifilm	15000	4.18	2.05
HY0969	Petrifilm	4	0.60	-3.73
HY0977	Petrifilm	92	1.96	-1.53
HY0994	Petrifilm	1056	3.02	0.19
HY0995	Petrifilm	300	2.48	-0.70
HY0996	Petrifilm	<100		
HY0997	Petrifilm	1016	3.01	0.16
HY1000	Petrifilm	1760	3.25	0.54

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1003	Petrifilm	320000	5.51	4.20
HY1011	Plate count agar	420	2.62	-0.46
HY1011	Other	360	2.56	-0.57
HY1014	Petrifilm	10	1.00	-3.09
HY1015	Petrifilm	10	1.00	-3.09
HY1017	Plate count agar	3600	3.56	1.05
HY1018	Plate count agar	50	1.70	-1.96
HY1020	Plate count agar	104	2.02	-1.44
HY1021	Plate count agar	30	1.48	-2.31
HY1022	Plate count agar	230	2.36	-0.88
HY1023	Plate count agar	1000000	6.00	5.00
HY1024	Petrifilm	20	1.30	-2.60
HY1042	Plate count agar	760	2.88	-0.04
HY1049	Plate count agar	1500	3.18	0.43
HY1061	Plate count agar	300	2.48	-0.70
HY1067	Plate count agar	810	2.91	0.00
HY1071	Plate count agar	19000	4.28	2.22
HY1074	Plate count agar	200	2.30	-0.98
HY1076	Plate count agar	765	2.88	-0.04
HY1082	Petrifilm	300	2.48	-0.70
HY1087	Petrifilm	170	2.23	-1.10
HY1092	Other	100	2.00	-1.47
HY1097	Plate count agar	240	2.38	-0.85
HY1105	Plate count agar	890	2.95	0.07
HY1106	Plate count agar	1200	3.08	0.28
HY1121	Plate count agar	120	2.08	-1.34
HY1123	Plate count agar	450	2.65	-0.41
HY1125	Other	707	2.85	-0.10
HY1148	Plate count agar	600	2.78	-0.21
HY1166	Plate count agar	1900	3.28	0.60
HY1171	Plate count agar	910	2.96	0.08
HY1196	Plate count agar	1200	3.08	0.28
HY1213	Other	1000	3.00	0.15
HY1220	Plate count agar	<10		
HY1225	Plate count agar	660	2.82	-0.14
HY1232	Petrifilm	300	2.48	-0.70
HY1233	Petrifilm	220	2.34	-0.92
HY1239	Plate count agar	920	2.96	0.09
HY1243	Other	800	2.90	-0.01
HY1246	Plate count agar	1600	3.20	0.48
HY1249	Other	200	2.30	-0.98
HY1263	Plate count agar	800	2.90	-0.01
HY1274	Plate count agar	<50		
HY1276	Plate count agar	1636	3.21	0.49
HY1284	Petrifilm	5	0.70	-3.57
HY1285	Plate count agar	100	2.00	-1.47
HY1288	Plate count agar	8000	3.90	1.61
HY1292	Plate count agar	700	2.85	-0.10
HY1295	Plate count agar	20	1.30	-2.60
HY1306	Plate count agar	760	2.88	-0.04
HY1313	Plate count agar	450	2.65	-0.41
HY1315	Plate count agar	280	2.45	-0.75
HY1334	Petrifilm	60	1.78	-1.83

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1409	Plate count agar	850	2.93	0.03
HY1411	Plate count agar	1900	3.28	0.60
HY1467	Plate count agar	3800	3.58	1.09
HY1471	Plate count agar	2300	3.36	0.73
HY1485	Plate count agar	210	2.32	-0.95
HY1491	Other	1100	3.04	0.21
HY1495	Plate count agar	30	1.48	-2.31
HY1498	Plate count agar	1000	3.00	0.15
HY1511	Plate count agar	495	2.69	-0.35
HY1513	Plate count agar	700	2.85	-0.10
HY1530	Plate count agar	820	2.91	0.01
HY1552	Plate count agar	40	1.60	-2.11
HY1563	Other	150	2.18	-1.18
HY1586	Other	517	2.71	-0.32
HY1599	Plate count agar	720	2.86	-0.08
HY1627	Petrifilm	8300	3.92	1.63
HY1641	Plate count agar	3800	3.58	1.09
HY1653	Other	53	1.72	-1.91
HY1666	Plate count agar	110	2.04	-1.40
HY1678	Plate count agar	125	2.10	-1.31
HY1681	Plate count agar	400	2.60	-0.50
HY1682	Petrifilm	700	2.85	-0.10
HY1684	Plate count agar	814	2.91	0.00
HY1690	Plate count agar	600	2.78	-0.21
HY1699	Plate count agar	1000	3.00	0.15
HY1701	Petrifilm	100	2.00	-1.47
HY1712	Plate count agar	620	2.79	-0.19
HY1748	Plate count agar	300	2.48	-0.70
HY1766	Plate count agar	190	2.28	-1.02
HY1788	Plate count agar	2247	3.35	0.72
HY1844	Plate count agar	360	2.56	-0.57
HY1857	Plate count agar	2300	3.36	0.73
HY1880	Plate count agar	795	2.90	-0.01
HY1902	Petrifilm	500	2.70	-0.34
HY1950	Petrifilm	45	1.65	-2.03
HY1976	Plate count agar	620	2.79	-0.19
HY2101	Plate count agar	950	2.98	0.11
HY2116	Plate count agar	770	2.89	-0.04
HY2121	Plate count agar	<10		
HY2123	Plate count agar	7100	3.85	1.52
HY2124	Other	50	1.70	-1.96
HY2125	Plate count agar	1100	3.04	0.21
HY2128	Plate count agar	2400	3.38	0.76
HY2131	Plate count agar	1100	3.04	0.21
HY2135	Other	50	1.70	-1.96
HY2150	Other	35	1.54	-2.21
HY2310	Plate count agar	765	2.88	-0.04
HY2312	Plate count agar	918	2.96	0.09
HY2320	Plate count agar	6500	3.81	1.46
HY2327	Plate count agar	2200	3.34	0.70
HY2333	Plate count agar	1050	3.02	0.18
HY2360	Petrifilm	<10		
HY2364	Plate count agar	2900	3.46	0.90

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2400	Plate count agar	<1		
HY2402	Plate count agar	730	2.86	-0.07
HY2405	Plate count agar	900	2.95	0.07
HY2407	Plate count agar	979	2.99	0.13
HY2410	Plate count agar	130	2.11	-1.28
HY2411	Plate count agar	1100	3.04	0.21
HY2412	Plate count agar	1	0.00	-4.70
HY2413	Plate count agar	1900	3.28	0.60
HY2442	Plate count agar	2700	3.43	0.85
HY2464	Petrifilm	110	2.04	-1.40
HY2477	Plate count agar	1200	3.08	0.28
HY2478	Plate count agar	20	1.30	-2.60
HY2514	Plate count agar	1150	3.06	0.25
HY2550	Petrifilm	<10		
HY2560	Plate count agar	680	2.83	-0.12
HY2617	Other	5400000	6.73	6.18
HY2641	Petrifilm	30	1.48	-2.31
HY2650	Plate count agar	8100	3.91	1.62
HY2658	Other	10900	4.04	1.83
HY2679	Plate count agar	70	1.85	-1.72
HY2682	Plate count agar	4700	3.67	1.23
HY2682	Petrifilm	4700	3.67	1.23
HY2695	Plate count agar	210	2.32	-0.95
HY2702	Plate count agar	3000	3.48	0.92
HY2742	Plate count agar	15	1.18	-2.80
HY2748	Plate count agar	2395	3.38	0.76
HY2756	Plate count agar	28000	4.45	2.49
HY2782	Plate count agar	1700	3.23	0.52
HY2798	Plate count agar	147	2.17	-1.20
HY2802	Plate count agar	1620	3.21	0.49
HY2807	Plate count agar	15000	4.18	2.05
HY2809	Plate count agar	15	1.18	-2.80
HY2821	Plate count agar	20000	4.30	2.25
HY2834	Plate count agar	19000	4.28	2.22
HY2841	Plate count agar	16000	4.20	2.09
HY2842	Plate count agar	300	2.48	-0.70
HY2852	Other	1700	3.23	0.52
HY2856	Plate count agar	4200	3.62	1.16
HY2857	Plate count agar	160	2.20	-1.14
HY2863	Plate count agar	2000	3.30	0.63
HY2866	Petrifilm	18	1.26	-2.67
HY2872	Plate count agar	100	2.00	-1.47
HY2873	Plate count agar	3730	3.57	1.07
HY2894	Plate count agar	2100	3.32	0.67
HY2895	Plate count agar	14000	4.15	2.00
HY2896	Plate count agar	900	2.95	0.07
HY2896	Other	350	2.54	-0.59
HY2899	Plate count agar	1000	3.00	0.15
HY2901	Petrifilm	370	2.57	-0.55
HY2904	Plate count agar	1500	3.18	0.43
HY2907	Petrifilm	<1000.0		
HY2908	Plate count agar	11000000	7.04	6.68
HY2912	Plate count agar	240	2.38	-0.85

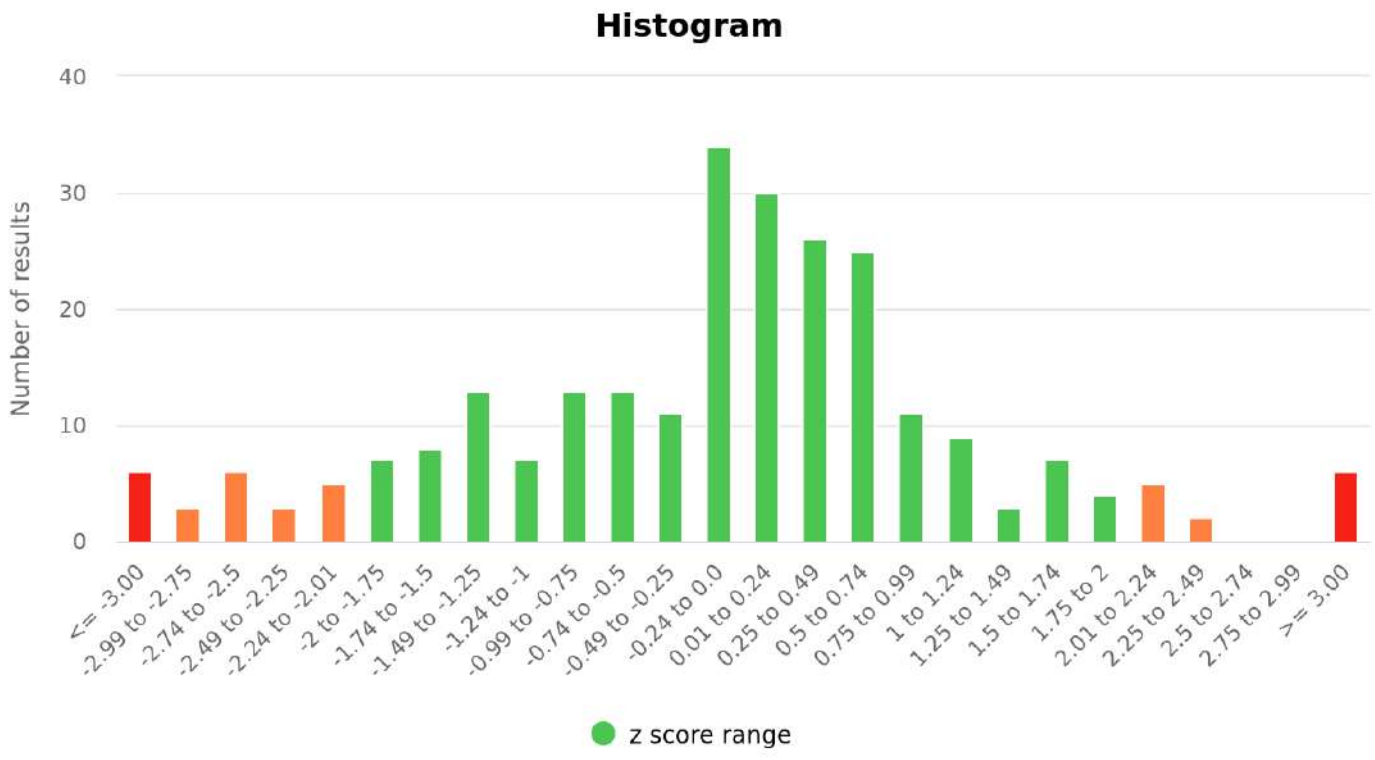
Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2913	Plate count agar	1500	3.18	0.43
HY2918	Plate count agar	450	2.65	-0.41
HY2918	Other	310	2.49	-0.67
HY2923	Plate count agar	1900	3.28	0.60
HY2928	Petrifilm	400000	5.60	4.35
HY2929	Plate count agar	11000	4.04	1.83
HY2931	Plate count agar	660	2.82	-0.14

Quantitative Statistics

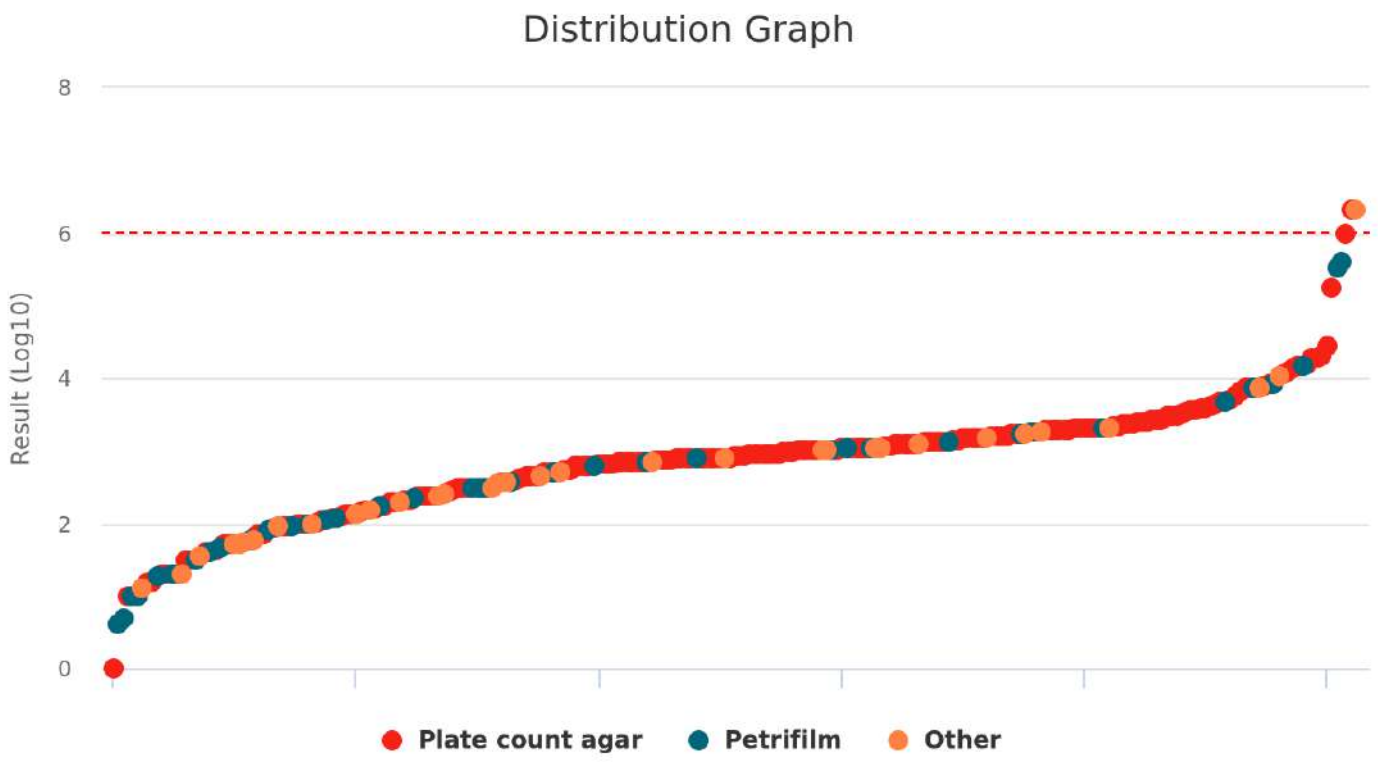
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.91	0.05	0.62	N/A	1.67 to 4.15	86.0%	9.3%	4.7%
	cfu/plate	810	N/A	N/A	N/A	47 to 13985	86.0%	9.3%	4.7%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	269	14	2.82	2.91	0.83	0.62	0.00 to 6.00
	cfu/plate	269	14	N/A	N/A	N/A	N/A	1 to 1000000

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
Other	34	2	13	Log10	2.55	0.759	1.11 to 4.04	87.9	9.1	3.0
Petrifilm	45	5	17	Log10	2.48	0.990	0.60 to 5.60	67.5	17.5	15.0
Plate count agar	190	7	71	Log10	2.98	0.481	0.00 to 6.00	89.7	7.6	2.7

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	DRBC agar	3900	3.59	0.21
HY0036	DRBC agar	3000	3.48	-0.12
HY0036	YGC agar	2909	3.46	-0.16
HY0036	Dichloran 18 agar	2818	3.45	-0.20
HY0037	DRBC agar	5500	3.74	0.63
HY0045	Rose Bengal agar	2818	3.45	-0.20
HY0048	Rose Bengal agar	6273	3.80	0.80
HY0054	Rose Bengal agar	22200	4.35	2.37
HY0087	DRBC agar	23000	4.36	2.41
HY0106	Dichloran 18 agar	600	2.78	-2.12
HY0170	Dichloran 18 agar	2000	3.30	-0.62
HY0183	YGC agar	650	2.81	-2.02
HY0184	Dichloran 18 agar	1800	3.26	-0.75
HY0222	Other	2420	3.38	-0.38
HY0245	Malt extract agar	3300	3.52	0.00
HY0253	DRBC agar	4300	3.63	0.33
HY0301	Other	17000	4.23	2.03
HY0326	Dichloran 18 agar	4500	3.65	0.38
HY0338	YGC agar	1250	3.10	-1.20
HY0351	DRBC agar	2400	3.38	-0.40
HY0370	DRBC agar	4000	3.60	0.24
HY0380	Malt extract agar	<1		
HY0389	Petrifilm	2000	3.30	-0.62
HY0403	Petrifilm	4400	3.64	0.36
HY0411	DRBC agar	2000	3.30	-0.62
HY0446	Malt extract agar	>200		
HY0457	Malt extract agar	4900	3.69	0.49
HY0467	DRBC agar	840	2.92	-1.70
HY0476	Rose Bengal agar	4000	3.60	0.24
HY0485	YGC agar	34600	4.54	2.92
HY0493	DRBC agar	1600	3.20	-0.90
HY0499	Other	5000	3.70	0.52
HY0515	Petrifilm	3400	3.53	0.04
HY0516	DRBC agar	3500	3.54	0.07
HY0516	Petrifilm	3500	3.54	0.07
HY0516	Other	3500	3.54	0.07
HY0526	Other	4200	3.62	0.30
HY0544	DRBC agar	2800	3.45	-0.20
HY0572	Other	<1		
HY0629	OGYE agar	5200	3.72	0.56
HY0655	YGC agar	1800	3.26	-0.75
HY0697	Dichloran 18 agar	2765	3.44	-0.22
HY0697	Other	2900	3.46	-0.16
HY0715	Rose Bengal agar	13000	4.11	1.70
HY0737	YGC agar	2400	3.38	-0.40
HY0740	OGYE agar	3100	3.49	-0.08
HY0755	Petrifilm	3327	3.52	0.01
HY0758	Other	4200	3.62	0.30
HY0765	DRBC agar	4600	3.66	0.41
HY0765	Dichloran 18 agar	3400	3.53	0.04

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0765	Other	2500	3.40	-0.34
HY0786	Other	2500	3.40	-0.34
HY0789	Petrifilm	7600	3.88	1.04
HY0830	DRBC agar	3818	3.58	0.18
HY0852	Other	<1		
HY0890	YGC agar	2235	3.35	-0.48
HY0898	Dichloran 18 agar	15000	4.18	1.88
HY0918	Petrifilm	>300		
HY0977	YGC agar	2200	3.34	-0.50
HY1011	Other	3300	3.52	0.00
HY1017	DRBC agar	2650	3.42	-0.27
HY1018	Other	21500	4.33	2.33
HY1020	DRBC agar	2400	3.38	-0.40
HY1021	Other	374	2.57	-2.70
HY1022	Other	3600	3.56	0.11
HY1049	Dichloran 18 agar	5500	3.74	0.63
HY1061	YGC agar	740	2.87	-1.86
HY1067	Dichloran 18 agar	3400	3.53	0.04
HY1074	YGC agar	4600	3.66	0.41
HY1076	Dichloran 18 agar	3250	3.51	-0.02
HY1092	Malt extract agar	3600	3.56	0.11
HY1123	Dichloran 18 agar	<1		
HY1125	Dichloran 18 agar	3874	3.59	0.20
HY1132	YGC agar	146	2.16	-3.87
HY1148	DRBC agar	3000	3.48	-0.12
HY1213	Dichloran 18 agar	4864	3.69	0.48
HY1225	Other	4500	3.65	0.38
HY1233	DRBC agar	4182	3.62	0.29
HY1246	Dichloran 18 agar	2400	3.38	-0.40
HY1249	Dichloran 18 agar	4500	3.65	0.38
HY1263	DRBC agar	2400	3.38	-0.40
HY1274	YGC agar	<1		
HY1276	Other	2636	3.42	-0.28
HY1285	YGC agar	422	2.63	-2.55
HY1288	YGC agar	21000	4.32	2.30
HY1292	Rose Bengal agar	2100	3.32	-0.56
HY1306	DRBC agar	3360	3.53	0.02
HY1411	Dichloran 18 agar	3500	3.54	0.07
HY1471	YGC agar	2500	3.40	-0.34
HY1491	Malt extract agar	1770	3.25	-0.77
HY1495	Other	3300	3.52	0.00
HY1498	DRBC agar	3500	3.54	0.07
HY1511	DRBC agar	2329	3.37	-0.43
HY1513	Dichloran 18 agar	4000	3.60	0.24
HY1552	YGC agar	3100	3.49	-0.08
HY1586	Dichloran 18 agar	4300	3.63	0.33
HY1653	Malt extract agar	>300		
HY1666	Other	3620	3.56	0.11
HY1681	OGYE agar	19000	4.28	2.17
HY1684	Other	2495	3.40	-0.35
HY1690	DRBC agar	2870	3.46	-0.17

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1699	YGC agar	3600	3.56	0.11
HY1701	Petrifilm	10500	4.02	1.44
HY1706	Rose Bengal agar	2400	3.38	-0.40
HY1788	OGYE agar	3982	3.60	0.23
HY1880	DRBC agar	3814	3.58	0.18
HY1902	Other	860	2.93	-1.67
HY1950	Petrifilm	2400	3.38	-0.40
HY2101	Other	4330	3.64	0.34
HY2121	OGYE agar	2400	3.38	-0.40
HY2123	YGC agar	160000	5.20	4.82
HY2124	Other	3000	3.48	-0.12
HY2125	DRBC agar	2000	3.30	-0.62
HY2128	Other	4272	3.63	0.32
HY2131	Other	8100	3.91	1.11
HY2150	Dichloran 18 agar	3100	3.49	-0.08
HY2310	YGC agar	2600	3.41	-0.30
HY2312	YGC agar	709	2.85	-1.91
HY2333	Other	3200	3.51	-0.04
HY2400	Malt extract agar	3512	3.55	0.08
HY2402	Dichloran 18 agar	1060	3.03	-1.41
HY2405	Other	3300	3.52	0.00
HY2407	Dichloran 18 agar	1345	3.13	-1.11
HY2410	Rose Bengal agar	3450	3.54	0.06
HY2411	Rose Bengal agar	1910	3.28	-0.68
HY2412	Other	790	2.90	-1.77
HY2413	Other	3380	3.53	0.03
HY2448	YGC agar	2700	3.43	-0.25
HY2464	Petrifilm	5600	3.75	0.66
HY2514	YGC agar	3500	3.54	0.07
HY2650	YGC agar	18000	4.26	2.11
HY2675	Other	3100	3.49	-0.08
HY2679	YGC agar	370	2.57	-2.72
HY2682	Petrifilm	7600	3.88	1.04
HY2690	DRBC agar	1200	3.08	-1.26
HY2690	Dichloran 18 agar	800	2.90	-1.76
HY2690	Other	860	2.93	-1.67
HY2716	DRBC agar	16000	4.20	1.96
HY2748	Dichloran 18 agar	3000	3.48	-0.12
HY2750	Other	2780	3.44	-0.21
HY2756	YGC agar	169000	5.23	4.88
HY2802	YGC agar	2410	3.38	-0.39
HY2807	YGC agar	1300	3.11	-1.16
HY2809	YGC agar	2300	3.36	-0.45
HY2821	DRBC agar	1800	3.26	-0.75
HY2823	YGC agar	3400	3.53	0.04
HY2834	Dichloran 18 agar	8600	3.93	1.19
HY2841	Dichloran 18 agar	20000	4.30	2.24
HY2842	Dichloran 18 agar	340	2.53	-2.82
HY2856	Other	3700	3.57	0.14
HY2857	Other	3200	3.51	-0.04
HY2863	Other	2400	3.38	-0.40

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Direct count)

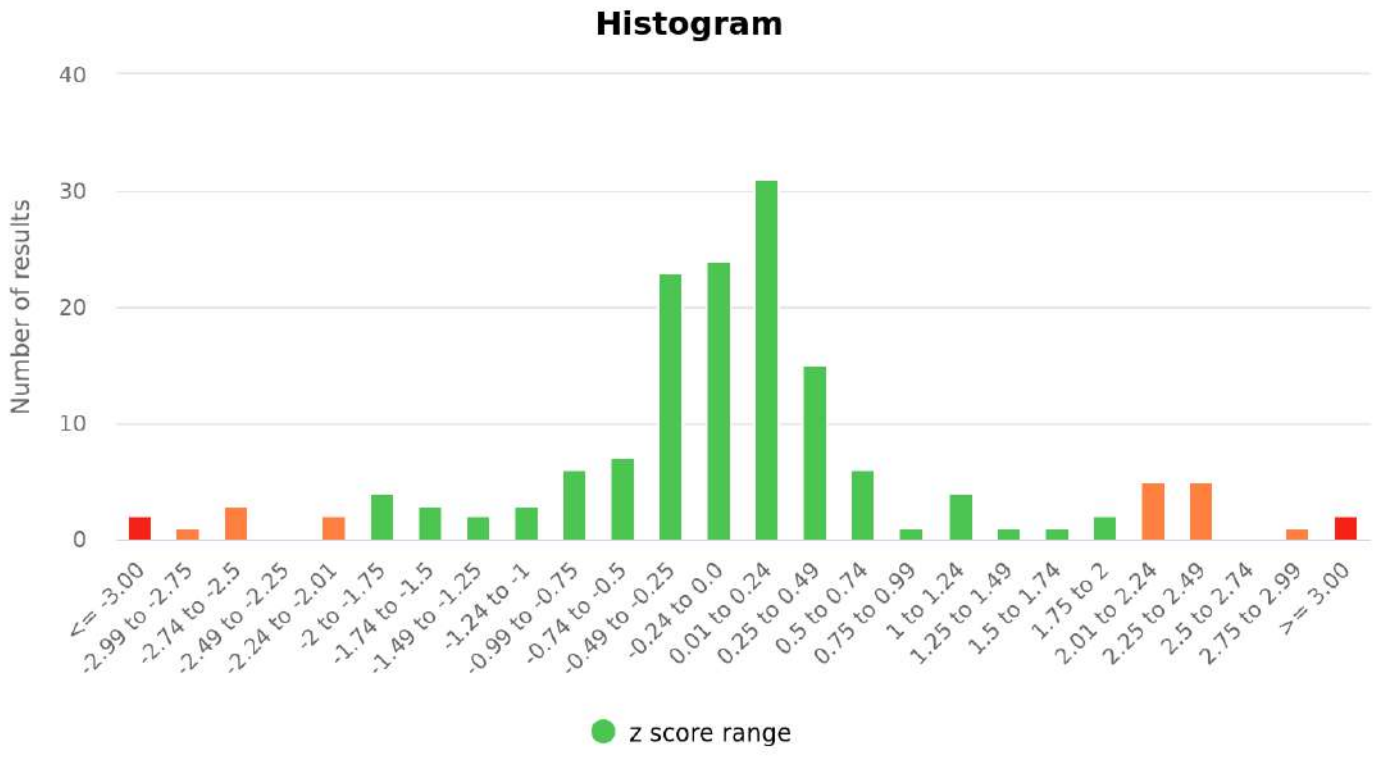
Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2894	Other	2891	3.46	-0.16
HY2895	DRBC agar	20000	4.30	2.24
HY2896	DRBC agar	3600	3.56	0.11
HY2896	Dichloran 18 agar	5200	3.72	0.56
HY2907	Petrifilm	21500	4.33	2.33
HY2913	YGC agar	3500	3.54	0.07
HY2918	Dichloran 18 agar	3400	3.53	0.04
HY2918	Other	1600	3.20	-0.90
HY2929	Other	73	1.86	-4.73
HY2931	YGC agar	2700	3.43	-0.25

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	3.52	0.02	0.35	N/A	2.82 to 4.22	86.4%	11.0%	2.6%
	cfu/200µl	3300	N/A	N/A	N/A	658 to 16539	86.4%	11.0%	2.6%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	162	8	3.51	3.52	0.44	0.20	1.86 to 5.23
	cfu/200µl	162	8	N/A	N/A	N/A	N/A	73 to 169000

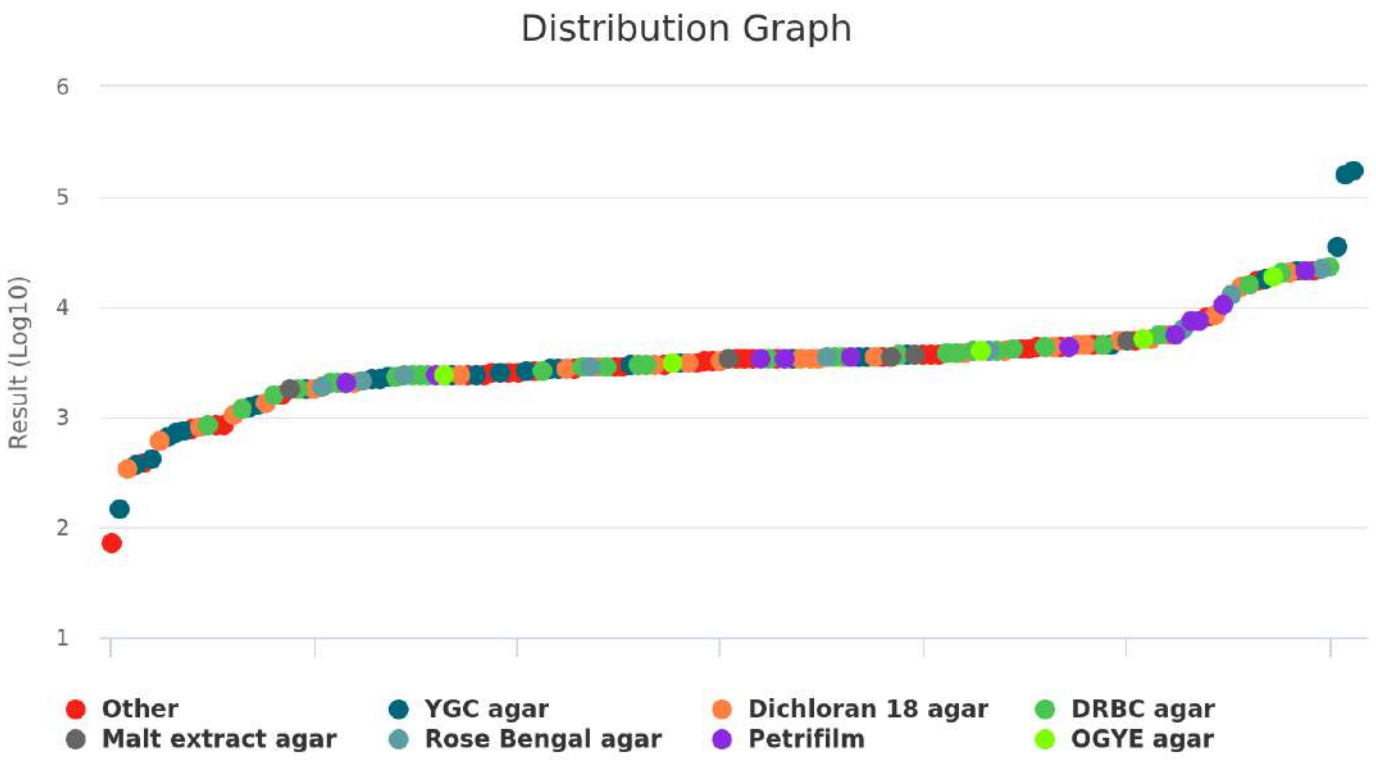
Histogram



Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Direct count)

Sample 01



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	30	0	19	Log10	3.50	0.180	2.92 to 4.36	93.3	6.7	0.0
Dichloran 18 agar	29	1	18	Log10	3.53	0.202	2.53 to 4.30	89.3	10.7	0.0
Malt extract agar	8	3	5	Log10	3.55	0.040	3.25 to 3.69	100.0	0.0	0.0
OGYE agar	5	0	3	Log10	3.60	0.172	3.38 to 4.28	80.0	20.0	0.0
Other	38	2	23	Log10	3.51	0.160	1.86 to 4.33	88.9	8.3	2.8
Petrifilm	12	1	7	Log10	3.64	0.352	3.30 to 4.33	90.9	9.1	0.0
Rose Bengal agar	9	0	6	Log10	3.54	0.320	3.28 to 4.35	88.9	11.1	0.0
YGC agar	31	1	19	Log10	3.41	0.223	2.16 to 5.23	70.0	20.0	10.0

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	DRBC agar	1380	3.14	0.48
HY0007	OGYE agar	1000	3.00	0.22
HY0036	DRBC agar	128	2.11	-1.42
HY0036	YGC agar	145	2.16	-1.32
HY0036	Dichloran 18 agar	173	2.24	-1.18
HY0037	DRBC agar	1800	3.26	0.69
HY0042	YGC agar	60	1.78	-2.03
HY0045	Rose Bengal agar	<50		
HY0048	Rose Bengal agar	845	2.93	0.09
HY0054	Rose Bengal agar	70	1.85	-1.90
HY0058	YGC agar	2800	3.45	1.05
HY0087	DRBC agar	1200	3.08	0.37
HY0106	Dichloran 18 agar	300	2.48	-0.74
HY0170	Dichloran 18 agar	390	2.59	-0.53
HY0183	YGC agar	160	2.20	-1.24
HY0184	Dichloran 18 agar	1700	3.23	0.65
HY0222	Other	720	2.86	-0.04
HY0245	Malt extract agar	530	2.72	-0.28
HY0247	DRBC agar	1600	3.20	0.60
HY0247	Other	1700	3.23	0.65
HY0253	DRBC agar	1200	3.08	0.37
HY0256	Malt extract agar	120	2.08	-1.47
HY0256	Other	140	2.15	-1.35
HY0301	Other	1600	3.20	0.60
HY0326	Dichloran 18 agar	900	2.95	0.14
HY0338	YGC agar	600	2.78	-0.18
HY0351	DRBC agar	730	2.86	-0.03
HY0370	DRBC agar	1000	3.00	0.22
HY0380	Malt extract agar	<1		
HY0389	Petrifilm	1700	3.23	0.65
HY0403	Petrifilm	2500	3.40	0.96
HY0411	DRBC agar	620	2.79	-0.16
HY0446	Malt extract agar	>200		
HY0457	Malt extract agar	10	1.00	-3.46
HY0467	DRBC agar	580	2.76	-0.21
HY0476	Rose Bengal agar	810	2.91	0.06
HY0485	YGC agar	120	2.08	-1.47
HY0493	DRBC agar	730	2.86	-0.03
HY0499	Other	1210	3.08	0.38
HY0515	Petrifilm	180	2.26	-1.15
HY0526	Other	680	2.83	-0.08
HY0543	Rose Bengal agar	1100	3.04	0.30
HY0544	DRBC agar	1600	3.20	0.60
HY0572	Other	<1		
HY0629	OGYE agar	1400	3.15	0.49
HY0655	YGC agar	450	2.65	-0.41
HY0697	Dichloran 18 agar	420	2.62	-0.47
HY0697	Other	380	2.58	-0.55
HY0715	Rose Bengal agar	4000	3.60	1.33
HY0737	YGC agar	680	2.83	-0.08

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0740	OGYE agar	880	2.94	0.12
HY0750	YGC agar	900	2.95	0.14
HY0755	Petrifilm	960	2.98	0.19
HY0758	Other	<2		
HY0765	DRBC agar	2500	3.40	0.96
HY0765	Dichloran 18 agar	2100	3.32	0.82
HY0765	Other	1200	3.08	0.37
HY0786	Other	530	2.72	-0.28
HY0789	DRBC agar	48000	4.68	3.32
HY0789	Petrifilm	6800	3.83	1.76
HY0789	Dichloran 18 agar	7100	3.85	1.79
HY0830	DRBC agar	100	2.00	-1.62
HY0852	Other	<1		
HY0890	YGC agar	250	2.40	-0.88
HY0898	Dichloran 18 agar	1100	3.04	0.30
HY0918	Petrifilm	360	2.56	-0.59
HY0977	Other	800	2.90	0.05
HY1011	Other	210	2.32	-1.02
HY1017	DRBC agar	2800	3.45	1.05
HY1018	Other	1380	3.14	0.48
HY1020	DRBC agar	540	2.73	-0.27
HY1021	Other	143	2.16	-1.33
HY1022	Other	2700	3.43	1.02
HY1042	OGYE agar	180	2.26	-1.15
HY1049	Dichloran 18 agar	800	2.90	0.05
HY1061	YGC agar	100	2.00	-1.62
HY1067	Dichloran 18 agar	650	2.81	-0.12
HY1071	DRBC agar	13800	4.14	2.32
HY1074	YGC agar	220	2.34	-0.99
HY1076	Dichloran 18 agar	377	2.58	-0.56
HY1092	Malt extract agar	220	2.34	-0.99
HY1097	Dichloran 18 agar	4500	3.65	1.43
HY1121	Other	3000	3.48	1.10
HY1123	Dichloran 18 agar	<1		
HY1125	Dichloran 18 agar	505	2.70	-0.32
HY1148	DRBC agar	600	2.78	-0.18
HY1196	DRBC agar	220	2.34	-0.99
HY1213	Dichloran 18 agar	1050	3.02	0.26
HY1220	Rose Bengal agar	<20		
HY1225	Other	655	2.82	-0.11
HY1233	DRBC agar	1910	3.28	0.74
HY1246	Dichloran 18 agar	1600	3.20	0.60
HY1249	Dichloran 18 agar	160	2.20	-1.24
HY1263	DRBC agar	550	2.74	-0.25
HY1274	YGC agar	<50		
HY1276	Other	1000	3.00	0.22
HY1285	YGC agar	100	2.00	-1.62
HY1288	YGC agar	5250	3.72	1.55
HY1292	Rose Bengal agar	580	2.76	-0.21
HY1306	DRBC agar	1960	3.29	0.76
HY1313	Dichloran 18 agar	3100	3.49	1.13

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1315	Other	2700	3.43	1.02
HY1411	Dichloran 18 agar	1500	3.18	0.55
HY1471	YGC agar	1500	3.18	0.55
HY1485	Dichloran 18 agar	760	2.88	0.01
HY1491	Malt extract agar	800	2.90	0.05
HY1495	Other	10	1.00	-3.46
HY1498	DRBC agar	850	2.93	0.09
HY1511	DRBC agar	470	2.67	-0.38
HY1513	Dichloran 18 agar	600	2.78	-0.18
HY1552	YGC agar	30	1.48	-2.58
HY1586	Dichloran 18 agar	333	2.52	-0.65
HY1653	Malt extract agar	46	1.66	-2.24
HY1666	OGYE agar	16400	4.21	2.46
HY1681	OGYE agar	500	2.70	-0.33
HY1682	Petrifilm	470	2.67	-0.38
HY1684	Other	518	2.71	-0.30
HY1690	DRBC agar	1060	3.03	0.27
HY1699	YGC agar	800	2.90	0.05
HY1701	Petrifilm	7200	3.86	1.80
HY1748	OGYE agar	1100	3.04	0.30
HY1788	OGYE agar	2509	3.40	0.96
HY1880	DRBC agar	705	2.85	-0.05
HY1902	Petrifilm	400	2.60	-0.51
HY1950	Petrifilm	2500	3.40	0.96
HY2101	Other	560	2.75	-0.24
HY2121	OGYE agar	100	2.00	-1.62
HY2123	YGC agar	160000	5.20	4.28
HY2124	Other	140	2.15	-1.35
HY2125	DRBC agar	1000	3.00	0.22
HY2128	Other	1100	3.04	0.30
HY2131	Other	690	2.84	-0.07
HY2135	Other	165	2.22	-1.22
HY2150	Dichloran 18 agar	435	2.64	-0.44
HY2310	YGC agar	530	2.72	-0.28
HY2312	YGC agar	270	2.43	-0.82
HY2333	YGC agar	1500	3.18	0.55
HY2360	Petrifilm	60	1.78	-2.03
HY2364	Rose Bengal agar	1300	3.11	0.43
HY2400	Malt extract agar	113	2.05	-1.52
HY2402	Dichloran 18 agar	330	2.52	-0.66
HY2405	Other	450	2.65	-0.41
HY2407	Dichloran 18 agar	279	2.45	-0.80
HY2410	Rose Bengal agar	155	2.19	-1.27
HY2411	Rose Bengal agar	5300	3.72	1.56
HY2412	Other	23	1.36	-2.79
HY2413	Other	1500	3.18	0.55
HY2448	YGC agar	295	2.47	-0.75
HY2464	Petrifilm	130	2.11	-1.41
HY2514	YGC agar	750	2.88	-0.01
HY2560	Other	270	2.43	-0.82
HY2650	YGC agar	5400	3.73	1.57

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2675	Other	77	1.89	-1.83
HY2679	YGC agar	40	1.60	-2.35
HY2682	Petrifilm	5000	3.70	1.51
HY2682	Dichloran 18 agar	6800	3.83	1.76
HY2748	Dichloran 18 agar	1500	3.18	0.55
HY2750	Other	60	1.78	-2.03
HY2756	YGC agar	2500	3.40	0.96
HY2802	YGC agar	540	2.73	-0.27
HY2807	YGC agar	19000	4.28	2.58
HY2809	YGC agar	6	0.78	-3.87
HY2821	DRBC agar	4000	3.60	1.33
HY2834	Dichloran 18 agar	23000	4.36	2.73
HY2841	Dichloran 18 agar	13000	4.11	2.28
HY2842	Dichloran 18 agar	200	2.30	-1.06
HY2856	Other	3500	3.54	1.23
HY2857	Other	1500	3.18	0.55
HY2863	Other	1200	3.08	0.37
HY2894	Other	1973	3.30	0.77
HY2895	DRBC agar	14000	4.15	2.34
HY2896	DRBC agar	100	2.00	-1.62
HY2896	Dichloran 18 agar	450	2.65	-0.41
HY2899	DRBC agar	21000	4.32	2.66
HY2901	Petrifilm	5100	3.71	1.53
HY2907	Petrifilm	14000	4.15	2.34
HY2913	YGC agar	1200	3.08	0.37
HY2918	Dichloran 18 agar	340	2.53	-0.64
HY2918	Other	180	2.26	-1.15
HY2923	Other	320	2.51	-0.69
HY2928	Petrifilm	300000	5.48	4.79
HY2929	Other	6800	3.83	1.76
HY2931	YGC agar	1100	3.04	0.30

Quantitative Statistics

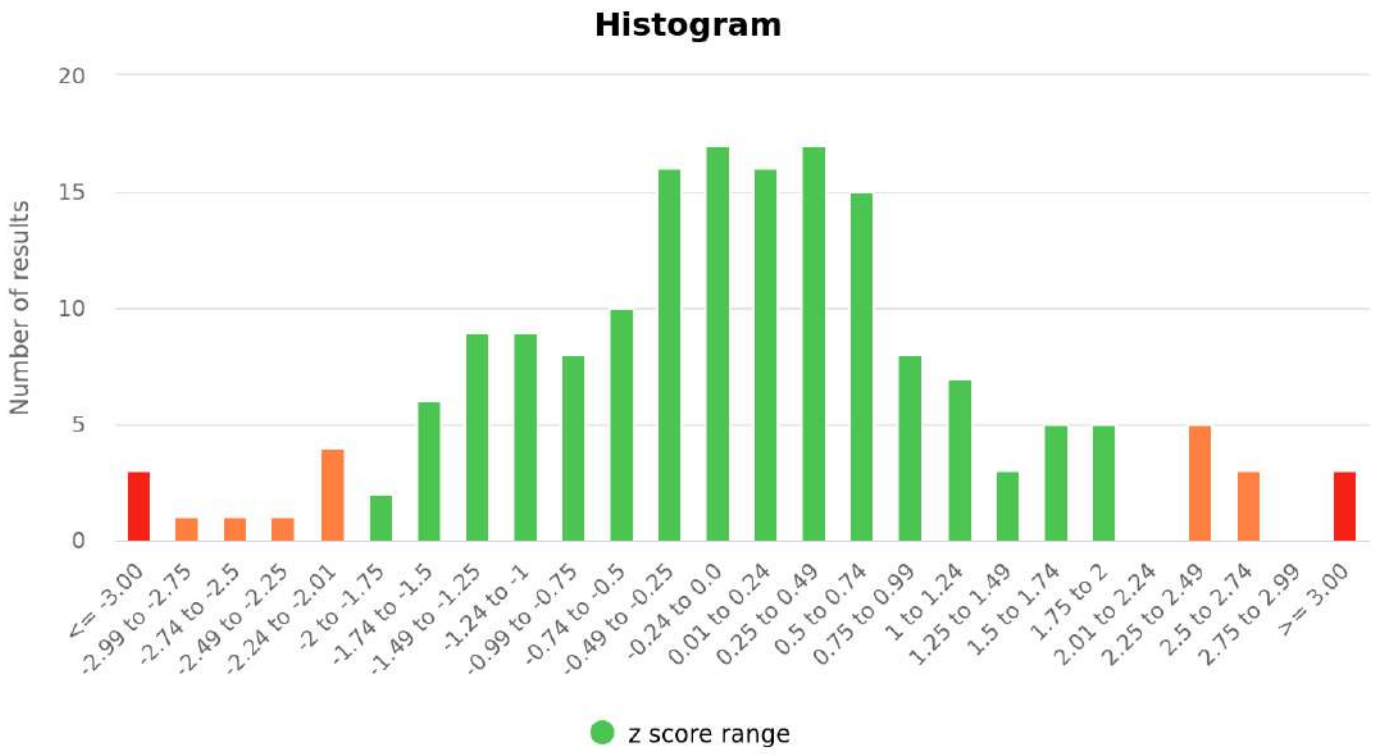
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.88	0.05	0.54	N/A	1.79 to 3.96	87.9%	8.6%	3.4%
	cfu/plate	755	N/A	N/A	N/A	62 to 9200	87.9%	8.6%	3.4%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	183	9	2.88	2.88	0.71	0.54	0.78 to 5.48
	cfu/plate	183	9	N/A	N/A	N/A	N/A	6 to 300000

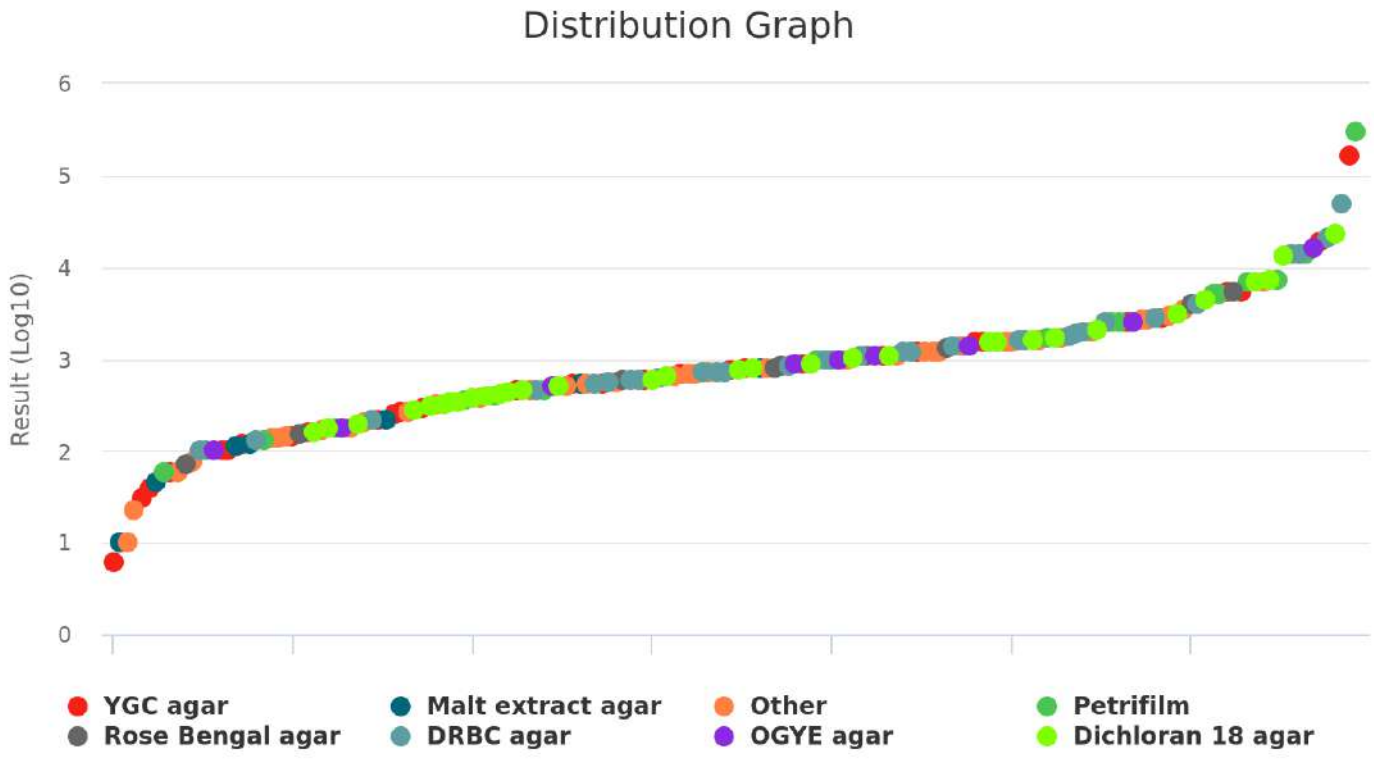
Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Swab count)

Histogram



Sample 01



Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast (Swab count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	32	0	17	Log10	3.01	0.384	2.00 to 4.68	87.5	9.4	3.1
Dichloran 18 agar	33	1	18	Log10	2.85	0.488	2.20 to 4.36	93.8	6.3	0.0
Malt extract agar	9	2	5	Log10	2.08	0.618	1.00 to 2.90	71.4	14.3	14.3
OGYE agar	9	0	5	Log10	3.00	0.446	2.00 to 4.21	88.9	11.1	0.0
Other	41	3	22	Log10	2.84	0.526	1.00 to 3.83	92.1	5.3	2.6
Petrifilm	16	0	9	Log10	3.31	0.879	1.78 to 5.48	81.3	12.5	6.3
Rose Bengal agar	11	2	6	Log10	2.93	0.277	1.85 to 3.72	100.0	0.0	0.0
YGC agar	32	1	17	Log10	2.73	0.658	0.78 to 5.20	80.6	12.9	6.5

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	DRBC agar	770	2.89	0.17
HY0036	DRBC agar	1045	3.02	0.55
HY0036	YGC agar	700	2.85	0.05
HY0036	Dichloran 18 agar	218	2.34	-1.39
HY0037	DRBC agar	1400	3.15	0.91
HY0045	Rose Bengal agar	92	1.96	-2.46
HY0048	Rose Bengal agar	545	2.74	-0.26
HY0054	Rose Bengal agar	5600	3.75	2.63
HY0087	DRBC agar	13000	4.11	3.68
HY0106	Dichloran 18 agar	65	1.81	-2.89
HY0170	Dichloran 18 agar	98	1.99	-2.39
HY0183	YGC agar	3850	3.59	2.17
HY0184	Dichloran 18 agar	770	2.89	0.17
HY0222	Other	850	2.93	0.30
HY0245	Malt extract agar	590	2.77	-0.16
HY0253	DRBC agar	600	2.78	-0.14
HY0301	Other	2700	3.43	1.73
HY0326	Dichloran 18 agar	1900	3.28	1.29
HY0338	YGC agar	450	2.65	-0.49
HY0351	DRBC agar	610	2.79	-0.12
HY0370	DRBC agar	140	2.15	-1.94
HY0380	Malt extract agar	<1		
HY0389	Petrifilm	700	2.85	0.05
HY0403	Petrifilm	790	2.90	0.20
HY0411	DRBC agar	740	2.87	0.12
HY0446	Malt extract agar	>200		
HY0457	Malt extract agar	600	2.78	-0.14
HY0467	DRBC agar	300	2.48	-1.00
HY0476	Rose Bengal agar	720	2.86	0.09
HY0485	YGC agar	3400	3.53	2.02
HY0493	DRBC agar	750	2.88	0.14
HY0499	Other	5000	3.70	2.49
HY0515	Petrifilm	790	2.90	0.20
HY0516	DRBC agar	670	2.83	0.00
HY0516	Petrifilm	670	2.83	0.00
HY0516	Other	670	2.83	0.00
HY0526	Other	600	2.78	-0.14
HY0544	DRBC agar	940	2.97	0.42
HY0572	Other	640	2.81	-0.06
HY0629	OGYE agar	720	2.86	0.09
HY0655	YGC agar	780	2.89	0.19
HY0697	Dichloran 18 agar	400	2.60	-0.64
HY0697	Other	290	2.46	-1.04
HY0715	Rose Bengal agar	4200	3.62	2.28
HY0737	YGC agar	680	2.83	0.02
HY0740	OGYE agar	850	2.93	0.30
HY0755	Petrifilm	436	2.64	-0.53
HY0758	Other	1000	3.00	0.50
HY0765	DRBC agar	440	2.64	-0.52
HY0765	Dichloran 18 agar	320	2.51	-0.92

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0765	Other	300	2.48	-1.00
HY0786	Petrifilm	570	2.76	-0.20
HY0786	Other	610	2.79	-0.12
HY0789	Petrifilm	1500	3.18	1.00
HY0830	DRBC agar	727	2.86	0.10
HY0852	Other	530	2.72	-0.29
HY0890	YGC agar	420	2.62	-0.58
HY0898	Dichloran 18 agar	270	2.43	-1.13
HY0918	Petrifilm	>300		
HY0977	YGC agar	500	2.70	-0.36
HY1011	Other	1200	3.08	0.72
HY1017	DRBC agar	700	2.85	0.05
HY1018	Other	7000	3.85	2.91
HY1020	DRBC agar	1380	3.14	0.90
HY1021	Other	127	2.10	-2.06
HY1022	Other	640	2.81	-0.06
HY1049	Dichloran 18 agar	2300	3.36	1.53
HY1061	YGC agar	460	2.66	-0.47
HY1067	Dichloran 18 agar	100	2.00	-2.36
HY1074	YGC agar	500	2.70	-0.36
HY1076	Dichloran 18 agar	281	2.45	-1.08
HY1092	Malt extract agar	770	2.89	0.17
HY1123	Dichloran 18 agar	350	2.54	-0.81
HY1125	Malt extract agar	1019	3.01	0.52
HY1132	YGC agar	44	1.64	-3.38
HY1148	DRBC agar	1200	3.08	0.72
HY1213	Dichloran 18 agar	1273	3.10	0.80
HY1225	Other	900	2.95	0.37
HY1233	DRBC agar	455	2.66	-0.48
HY1246	Dichloran 18 agar	720	2.86	0.09
HY1249	Dichloran 18 agar	520	2.72	-0.31
HY1263	DRBC agar	560	2.75	-0.22
HY1274	YGC agar	<1		
HY1276	Other	790	2.90	0.20
HY1285	YGC agar	240	2.38	-1.27
HY1288	YGC agar	1750	3.24	1.19
HY1292	Rose Bengal agar	690	2.84	0.04
HY1306	DRBC agar	840	2.92	0.28
HY1411	Dichloran 18 agar	5	0.70	-6.08
HY1471	YGC agar	580	2.76	-0.18
HY1491	Malt extract agar	580	2.76	-0.18
HY1495	Other	10	1.00	-5.22
HY1498	DRBC agar	480	2.68	-0.41
HY1511	DRBC agar	340	2.53	-0.84
HY1513	Dichloran 18 agar	4	0.60	-6.35
HY1552	YGC agar	440	2.64	-0.52
HY1586	Dichloran 18 agar	480	2.68	-0.41
HY1627	Other	39000	4.59	5.04
HY1653	Malt extract agar	4	0.60	-6.35
HY1666	DRBC agar	680	2.83	0.02
HY1681	OGYE agar	3500	3.54	2.05

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1684	Other	491	2.69	-0.39
HY1690	DRBC agar	580	2.76	-0.18
HY1699	YGC agar	400	2.60	-0.64
HY1701	Petrifilm	1600	3.20	1.08
HY1706	Rose Bengal agar	550	2.74	-0.24
HY1788	OGYE agar	1127	3.05	0.65
HY1880	DRBC agar	200	2.30	-1.50
HY1902	Other	220	2.34	-1.38
HY1950	Petrifilm	600	2.78	-0.14
HY2101	Other	980	2.99	0.47
HY2121	OGYE agar	800	2.90	0.22
HY2123	YGC agar	19000	4.28	4.15
HY2124	Other	400	2.60	-0.64
HY2125	DRBC agar	500	2.70	-0.36
HY2128	Other	518	2.71	-0.32
HY2131	Other	1100	3.04	0.62
HY2150	Dichloran 18 agar	700	2.85	0.05
HY2310	YGC agar	620	2.79	-0.10
HY2312	YGC agar	600	2.78	-0.14
HY2333	Other	500	2.70	-0.36
HY2400	Malt extract agar	788	2.90	0.20
HY2402	Dichloran 18 agar	6700	3.83	2.86
HY2402	Other	1670	3.22	1.13
HY2405	Other	1100	3.04	0.62
HY2407	Dichloran 18 agar	627	2.80	-0.08
HY2410	Rose Bengal agar	395	2.60	-0.66
HY2411	Rose Bengal agar	450	2.65	-0.49
HY2412	Other	340	2.53	-0.84
HY2413	Other	920	2.96	0.39
HY2448	YGC agar	1400	3.15	0.91
HY2464	Petrifilm	1000	3.00	0.50
HY2514	YGC agar	510	2.71	-0.34
HY2650	YGC agar	2500	3.40	1.63
HY2675	Other	400	2.60	-0.64
HY2679	YGC agar	140	2.15	-1.94
HY2682	Petrifilm	1500	3.18	1.00
HY2690	DRBC agar	920	2.96	0.39
HY2690	Dichloran 18 agar	430	2.63	-0.55
HY2690	Other	650	2.81	-0.04
HY2716	DRBC agar	6400	3.81	2.80
HY2748	Dichloran 18 agar	<10		
HY2750	Other	320	2.51	-0.92
HY2756	YGC agar	62200	4.79	5.62
HY2802	YGC agar	228	2.36	-1.34
HY2807	YGC agar	780	2.89	0.19
HY2809	YGC agar	900	2.95	0.37
HY2821	DRBC agar	1000	3.00	0.50
HY2823	YGC agar	850	2.93	0.30
HY2834	Dichloran 18 agar	2100	3.32	1.42
HY2841	Dichloran 18 agar	100	2.00	-2.36
HY2842	Dichloran 18 agar	<10		

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2856	Other	600	2.78	-0.14
HY2857	Other	1000	3.00	0.50
HY2863	Other	900	2.95	0.37
HY2894	Other	773	2.89	0.18
HY2895	DRBC agar	6400	3.81	2.80
HY2896	DRBC agar	2000	3.30	1.36
HY2896	Dichloran 18 agar	860	2.93	0.31
HY2907	Petrifilm	3650	3.56	2.10
HY2913	YGC agar	960	2.98	0.45
HY2918	Dichloran 18 agar	20	1.30	-4.36
HY2918	Other	14	1.15	-4.80
HY2929	Other	58	1.76	-3.04
HY2931	YGC agar	410	2.61	-0.61

Quantitative Statistics

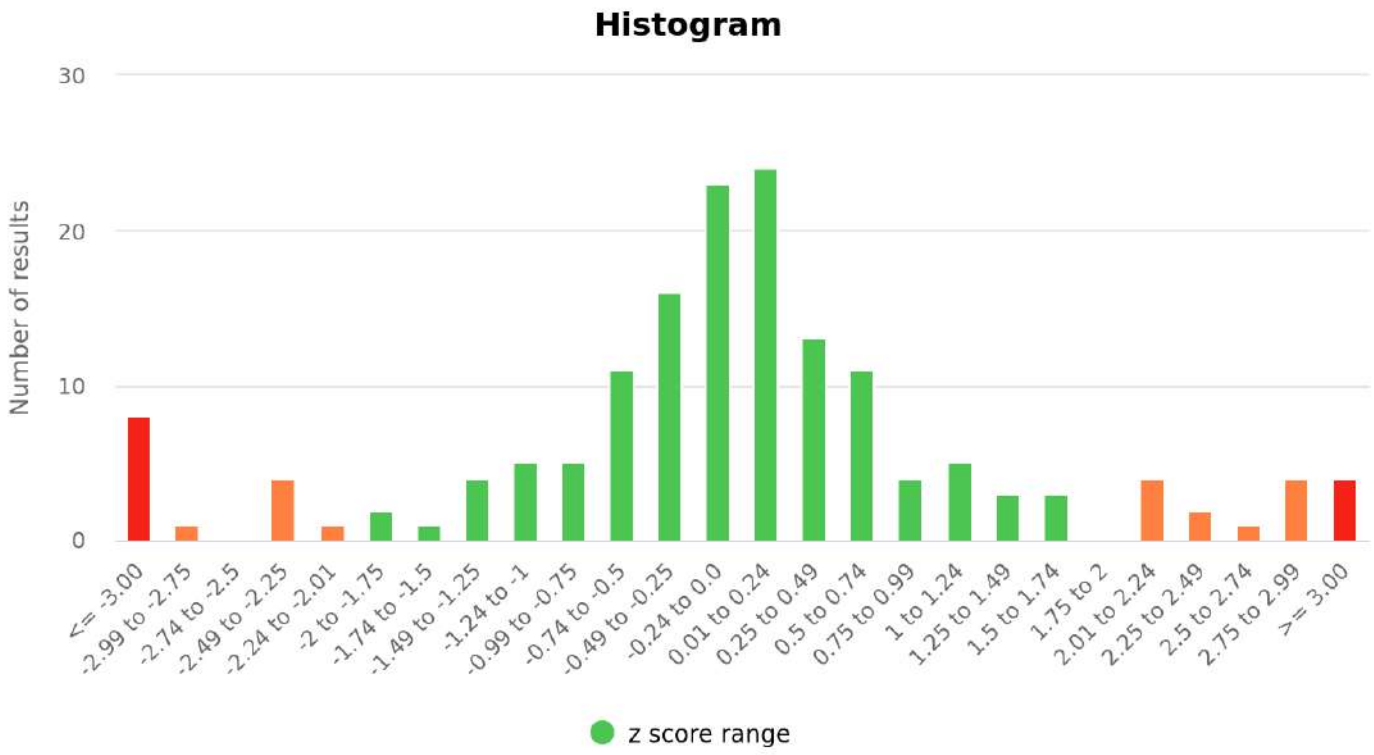
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.83	0.03	0.35	N/A	2.13 to 3.53	81.8%	10.7%	7.5%
	cfu/200µl	670	N/A	N/A	N/A	134 to 3358	81.8%	10.7%	7.5%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	165	12	2.83	2.83	0.46	0.26	1.15 to 4.28
	cfu/200µl	165	12	N/A	N/A	N/A	N/A	14 to 19000

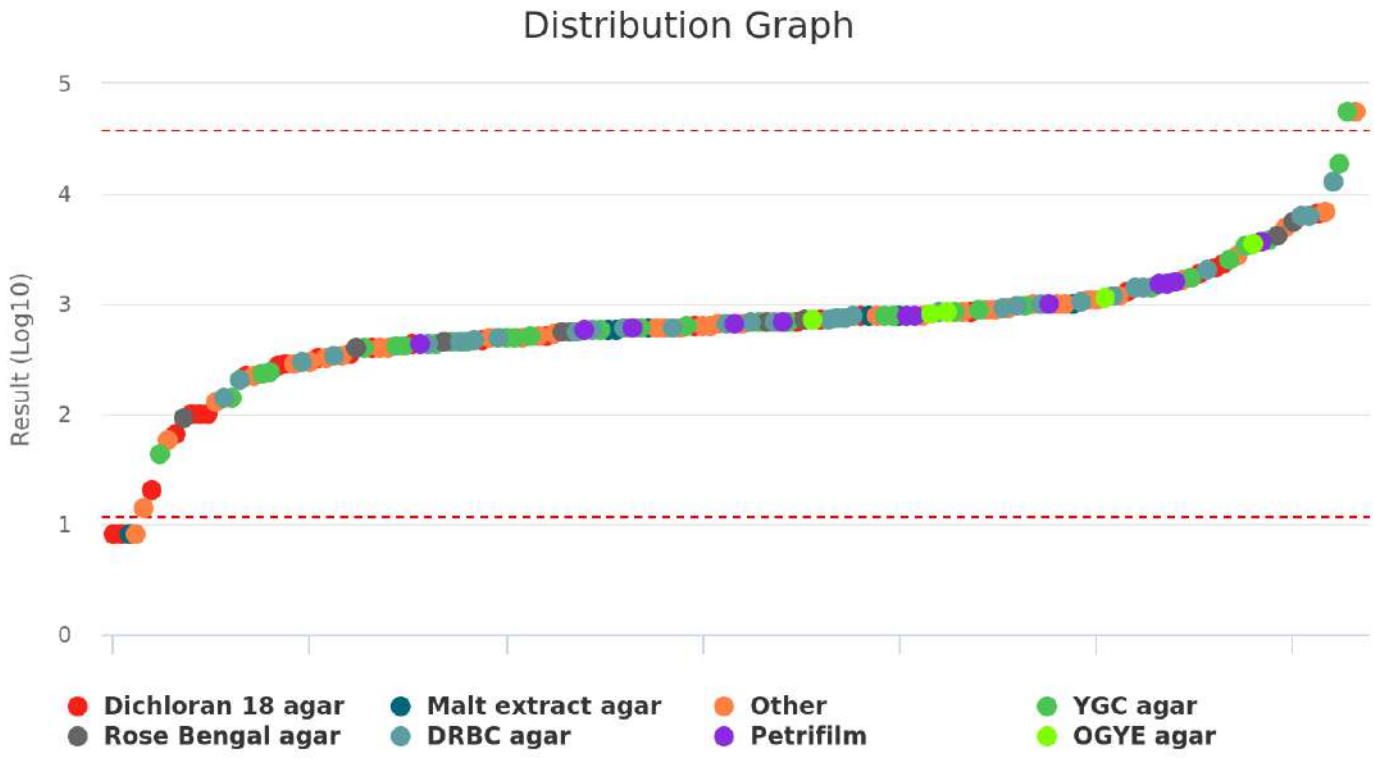
Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Direct count)

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	31	0	19	Log10	2.86	0.234	2.15 to 4.11	90.3	6.5	3.2
Dichloran 18 agar	28	4	17	Log10	2.66	0.375	1.30 to 3.83	69.2	19.2	11.5
Malt extract agar	9	3	5	Log10	2.83	0.093	2.76 to 3.01	85.7	0.0	14.3
OGYE agar	5	0	3	Log10	2.93	0.107	2.86 to 3.54	80.0	20.0	0.0
Other	39	2	24	Log10	2.81	0.287	1.15 to 3.85	82.1	7.7	10.3
Petrifilm	13	1	8	Log10	2.90	0.194	2.64 to 3.56	91.7	8.3	0.0
Rose Bengal agar	9	0	5	Log10	2.74	0.173	1.96 to 3.75	66.7	33.3	0.0
YGC agar	31	2	19	Log10	2.78	0.230	1.64 to 4.28	83.3	6.7	10.0

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	DRBC agar	510	2.71	0.72
HY0007	OGYE agar	150	2.18	-0.27
HY0036	DRBC agar	64	1.81	-0.96
HY0036	YGC agar	91	1.96	-0.68
HY0036	Dichloran 18 agar	11	1.04	-2.39
HY0037	DRBC agar	500	2.70	0.70
HY0042	YGC agar	<1		
HY0045	Rose Bengal agar	<50		
HY0048	Rose Bengal agar	164	2.21	-0.20
HY0054	Rose Bengal agar	1125	3.05	1.36
HY0058	YGC agar	1100	3.04	1.34
HY0087	DRBC agar	500	2.70	0.70
HY0106	Dichloran 18 agar	30	1.48	-1.58
HY0170	Dichloran 18 agar	20	1.30	-1.91
HY0183	YGC agar	984	2.99	1.25
HY0184	Dichloran 18 agar	500	2.70	0.70
HY0222	Other	260	2.41	0.17
HY0245	Malt extract agar	130	2.11	-0.39
HY0247	Other	590	2.77	0.84
HY0253	DRBC agar	200	2.30	-0.04
HY0256	Malt extract agar	320	2.51	0.34
HY0256	Other	330	2.52	0.37
HY0301	Other	1300	3.11	1.48
HY0326	Dichloran 18 agar	80	1.90	-0.78
HY0338	YGC agar	220	2.34	0.04
HY0351	DRBC agar	280	2.45	0.23
HY0370	DRBC agar	35	1.54	-1.45
HY0380	Malt extract agar	<1		
HY0389	Petrifilm	500	2.70	0.70
HY0403	Petrifilm	550	2.74	0.78
HY0411	DRBC agar	210	2.32	0.00
HY0446	Malt extract agar	>200		
HY0457	Malt extract agar	10	1.00	-2.47
HY0467	DRBC agar	40	1.60	-1.34
HY0476	Rose Bengal agar	220	2.34	0.04
HY0485	YGC agar	60	1.78	-1.02
HY0493	DRBC agar	200	2.30	-0.04
HY0499	Other	660	2.82	0.93
HY0515	Petrifilm	80	1.90	-0.78
HY0526	Other	100	2.00	-0.60
HY0543	Rose Bengal agar	450	2.65	0.62
HY0544	DRBC agar	210	2.32	0.00
HY0572	Other	180	2.26	-0.13
HY0629	OGYE agar	180	2.26	-0.13
HY0655	YGC agar	200	2.30	-0.04
HY0697	Dichloran 18 agar	<10		
HY0697	Other	<10		
HY0715	Rose Bengal agar	1200	3.08	1.41
HY0737	YGC agar	340	2.53	0.39
HY0740	OGYE agar	500	2.70	0.70

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0750	YGC agar	200	2.30	-0.04
HY0755	Petrifilm	150	2.18	-0.27
HY0758	Other	<2		
HY0765	DRBC agar	390	2.59	0.50
HY0765	Dichloran 18 agar	300	2.48	0.29
HY0765	Other	260	2.41	0.17
HY0786	Petrifilm	59	1.77	-1.03
HY0789	DRBC agar	1000	3.00	1.27
HY0789	Petrifilm	800	2.90	1.08
HY0789	Dichloran 18 agar	200	2.30	-0.04
HY0830	DRBC agar	100	2.00	-0.60
HY0852	Other	34	1.53	-1.48
HY0890	YGC agar	95	1.98	-0.64
HY0898	Dichloran 18 agar	<100.0		
HY0918	Petrifilm	60	1.78	-1.02
HY0977	Other	250	2.40	0.14
HY1011	Other	110	2.04	-0.52
HY1017	DRBC agar	600	2.78	0.85
HY1018	Other	275	2.44	0.22
HY1020	DRBC agar	280	2.45	0.23
HY1021	Other	38	1.58	-1.39
HY1022	Other	480	2.68	0.67
HY1042	OGYE agar	200	2.30	-0.04
HY1049	Dichloran 18 agar	400	2.60	0.52
HY1061	YGC agar	<100.0		
HY1067	Dichloran 18 agar	29	1.46	-1.61
HY1071	DRBC agar	4600	3.66	2.50
HY1074	YGC agar	40	1.60	-1.34
HY1076	Dichloran 18 agar	30	1.48	-1.58
HY1092	Malt extract agar	20	1.30	-1.91
HY1097	Dichloran 18 agar	240	2.38	0.11
HY1121	Other	900	2.95	1.18
HY1123	Dichloran 18 agar	250	2.40	0.14
HY1125	Malt extract agar	136	2.13	-0.35
HY1148	DRBC agar	350	2.54	0.41
HY1196	DRBC agar	350	2.54	0.41
HY1213	Dichloran 18 agar	400	2.60	0.52
HY1220	Rose Bengal agar	20	1.30	-1.91
HY1225	Other	115	2.06	-0.49
HY1233	DRBC agar	240	2.38	0.11
HY1246	Dichloran 18 agar	620	2.79	0.88
HY1249	Dichloran 18 agar	30	1.48	-1.58
HY1263	DRBC agar	130	2.11	-0.39
HY1274	YGC agar	<50		
HY1276	Other	320	2.51	0.34
HY1285	YGC agar	100	2.00	-0.60
HY1288	YGC agar	430	2.63	0.58
HY1292	Rose Bengal agar	210	2.32	0.00
HY1306	DRBC agar	100	2.00	-0.60
HY1313	Dichloran 18 agar	170	2.23	-0.17
HY1315	Other	280	2.45	0.23

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1411	Dichloran 18 agar	<100.0		
HY1471	YGC agar	370	2.57	0.46
HY1485	Dichloran 18 agar	70	1.85	-0.89
HY1491	Malt extract agar	280	2.45	0.23
HY1495	Other	<1		
HY1498	DRBC agar	70	1.85	-0.89
HY1511	DRBC agar	108	2.03	-0.54
HY1513	Dichloran 18 agar	<100.0		
HY1552	YGC agar	20	1.30	-1.91
HY1586	Dichloran 18 agar	49	1.69	-1.18
HY1627	Other	12000	4.08	3.28
HY1653	Malt extract agar	1	0.00	-4.34
HY1666	OGYE agar	2800	3.45	2.10
HY1681	OGYE agar	100	2.00	-0.60
HY1682	Petrifilm	260	2.41	0.17
HY1684	Other	138	2.14	-0.34
HY1690	DRBC agar	340	2.53	0.39
HY1699	YGC agar	500	2.70	0.70
HY1701	Petrifilm	800	2.90	1.08
HY1748	OGYE agar	100	2.00	-0.60
HY1788	OGYE agar	643	2.81	0.91
HY1880	DRBC agar	43	1.63	-1.29
HY1902	Petrifilm	100	2.00	-0.60
HY1950	Petrifilm	400	2.60	0.52
HY2101	Other	230	2.36	0.07
HY2121	OGYE agar	10	1.00	-2.47
HY2123	YGC agar	19000	4.28	3.65
HY2124	Other	30	1.48	-1.58
HY2125	DRBC agar	150	2.18	-0.27
HY2128	Other	300	2.48	0.29
HY2131	Other	140	2.15	-0.33
HY2135	Other	50	1.70	-1.16
HY2150	Dichloran 18 agar	6	0.78	-2.88
HY2310	YGC agar	190	2.28	-0.08
HY2312	YGC agar	234	2.37	0.09
HY2333	YGC agar	120	2.08	-0.45
HY2360	Petrifilm	<10		
HY2364	Rose Bengal agar	350	2.54	0.41
HY2400	Malt extract agar	6	0.78	-2.88
HY2402	Dichloran 18 agar	160	2.20	-0.22
HY2405	Other	310	2.49	0.32
HY2407	Dichloran 18 agar	204	2.31	-0.02
HY2410	Rose Bengal agar	50	1.70	-1.16
HY2411	Rose Bengal agar	1100	3.04	1.34
HY2412	Other	7	0.85	-2.76
HY2413	Other	300	2.48	0.29
HY2448	YGC agar	60	1.78	-1.02
HY2464	Petrifilm	30	1.48	-1.58
HY2514	YGC agar	120	2.08	-0.45
HY2560	Other	<100		
HY2650	YGC agar	450	2.65	0.62

Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2675	Other	8	0.90	-2.65
HY2679	YGC agar	20	1.30	-1.91
HY2682	Petrifilm	400	2.60	0.52
HY2682	Dichloran 18 agar	200	2.30	-0.04
HY2748	Dichloran 18 agar	<10		
HY2750	Other	18	1.26	-1.99
HY2756	YGC agar	60	1.78	-1.02
HY2802	YGC agar	234	2.37	0.09
HY2807	YGC agar	8900	3.95	3.04
HY2809	YGC agar	1	0.00	-4.34
HY2821	DRBC agar	1000	3.00	1.27
HY2834	Dichloran 18 agar	21000	4.32	3.73
HY2841	Dichloran 18 agar	100	2.00	-0.60
HY2842	Dichloran 18 agar	<10		
HY2856	Other	500	2.70	0.70
HY2857	Other	360	2.56	0.44
HY2863	Other	300	2.48	0.29
HY2894	Other	627	2.80	0.89
HY2895	DRBC agar	4600	3.66	2.50
HY2896	DRBC agar	230	2.36	0.07
HY2896	Dichloran 18 agar	80	1.90	-0.78
HY2899	DRBC agar	4000	3.60	2.39
HY2901	Petrifilm	1400	3.15	1.54
HY2907	Petrifilm	9000	3.95	3.05
HY2913	YGC agar	320	2.51	0.34
HY2918	Dichloran 18 agar	6	0.78	-2.88
HY2918	Other	4	0.60	-3.21
HY2923	Other	30	1.48	-1.58
HY2928	Petrifilm	30000	4.48	4.02
HY2929	Other	5100	3.71	2.59
HY2931	YGC agar	190	2.28	-0.08

Quantitative Statistics

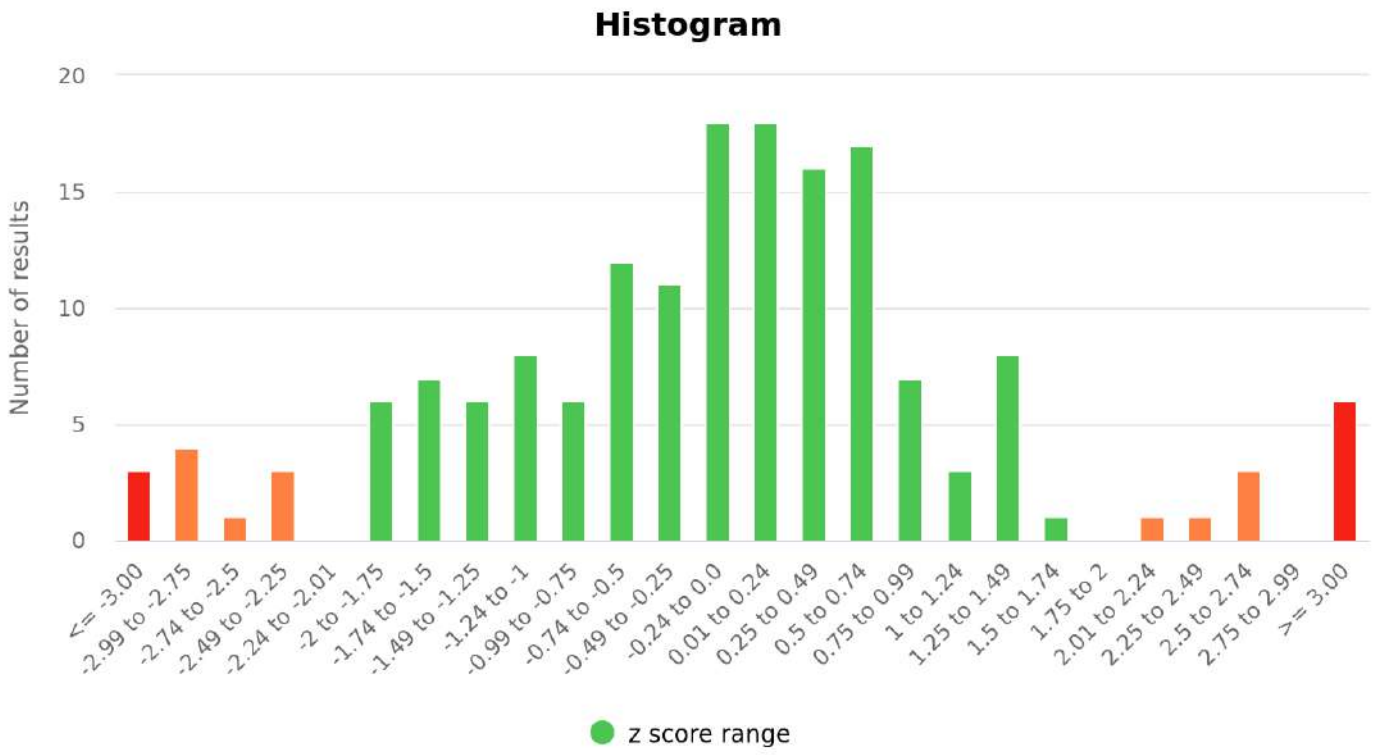
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.32	0.05	0.54	N/A	1.25 to 3.39	86.7%	7.8%	5.4%
	cfu/plate	210	N/A	N/A	N/A	18 to 2473	86.7%	7.8%	5.4%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	183	17	2.27	2.32	0.74	0.54	0.00 to 4.48
	cfu/plate	183	17	N/A	N/A	N/A	N/A	1 to 30000

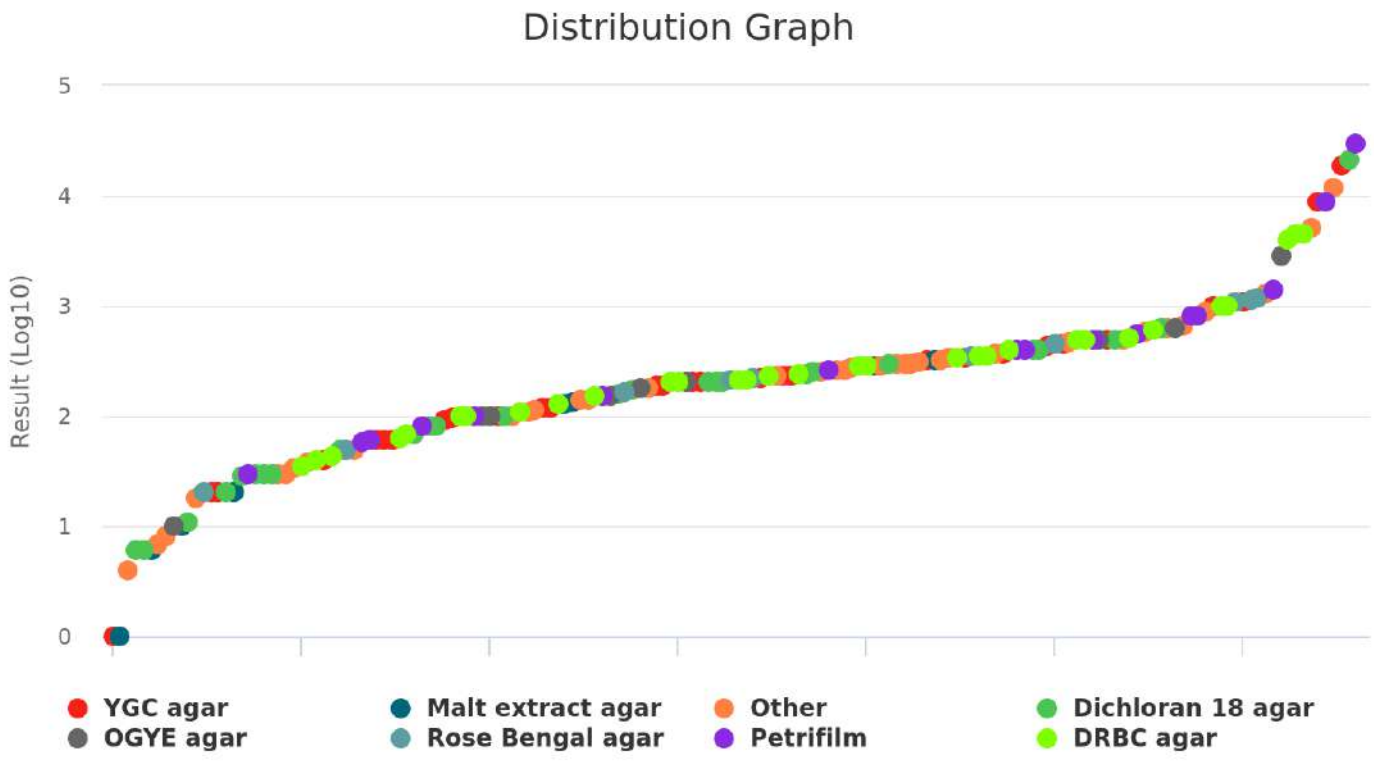
Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Swab count)

Histogram



Sample 01



Sample: 1 - Surface testing using swabbing techniques

Analyte: Mould (Swab count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	31	0	17	Log10	2.38	0.473	1.54 to 3.66	90.3	9.7	0.0
Dichloran 18 agar	32	6	17	Log10	2.10	0.676	0.78 to 4.32	84.6	11.5	3.8
Malt extract agar	10	2	5	Log10	1.71	1.073	0.00 to 2.51	62.5	25.0	12.5
OGYE agar	9	0	5	Log10	2.26	0.379	1.00 to 3.45	77.8	22.2	0.0
Other	41	4	22	Log10	2.41	0.525	0.60 to 4.08	86.5	8.1	5.4
Petrifilm	17	1	9	Log10	2.60	0.719	1.48 to 4.48	87.5	0.0	12.5
Rose Bengal agar	11	1	6	Log10	2.44	0.613	1.30 to 3.08	100.0	0.0	0.0
YGC agar	32	3	17	Log10	2.30	0.493	0.00 to 4.28	89.7	0.0	10.3

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	DRBC agar	4670	3.67	0.20
HY0029	DRBC agar	2240	3.35	-0.71
HY0036	DRBC agar	4045	3.61	0.03
HY0036	YGC agar	3609	3.56	-0.12
HY0036	Dichloran 18 agar	3036	3.48	-0.33
HY0037	Other	7000	3.85	0.71
HY0048	Rose Bengal agar	6818	3.83	0.67
HY0077	Other	1230	3.09	-1.45
HY0106	Dichloran 18 agar	665	2.82	-2.21
HY0170	Dichloran 18 agar	2100	3.32	-0.79
HY0183	YGC agar	4500	3.65	0.16
HY0222	Other	3270	3.51	-0.24
HY0253	DRBC agar	4900	3.69	0.26
HY0297	Other	6606	3.82	0.64
HY0301	Other	20000	4.30	2.01
HY0324	Dichloran 18 agar	4220	3.63	0.08
HY0328	Dichloran 18 agar	3800	3.58	-0.05
HY0338	Other	1750	3.24	-1.01
HY0380	Malt extract agar	<1		
HY0389	Petrifilm	2700	3.43	-0.48
HY0396	DRBC agar	5000	3.70	0.29
HY0403	Petrifilm	5300	3.72	0.36
HY0446	Malt extract agar	>200		
HY0457	Malt extract agar	5400	3.73	0.38
HY0467	DRBC agar	1140	3.06	-1.55
HY0476	Rose Bengal agar	4700	3.67	0.21
HY0485	YGC agar	38000	4.58	2.81
HY0516	DRBC agar	4170	3.62	0.06
HY0516	Petrifilm	4170	3.62	0.06
HY0516	Other	4170	3.62	0.06
HY0526	Other	4825	3.68	0.25
HY0572	Other	640	2.81	-2.26
HY0602	Rose Bengal agar	4200	3.62	0.07
HY0629	OGYE agar	5900	3.77	0.49
HY0655	YGC agar	2600	3.41	-0.52
HY0697	Dichloran 18 agar	3165	3.50	-0.28
HY0697	Other	3190	3.50	-0.27
HY0715	Rose Bengal agar	18000	4.26	1.88
HY0719	Dichloran 18 agar	1600	3.20	-1.12
HY0739	Malt extract agar	3700	3.57	-0.08
HY0755	Petrifilm	3763	3.58	-0.06
HY0758	Other	5200	3.72	0.34
HY0765	DRBC agar	5000	3.70	0.29
HY0765	Dichloran 18 agar	3700	3.57	-0.08
HY0765	Other	2800	3.45	-0.43
HY0786	Other	3100	3.49	-0.30
HY0789	Petrifilm	9200	3.96	1.05
HY0830	DRBC agar	4545	3.66	0.17
HY0852	Other	530	2.72	-2.50
HY0859	YGC agar	4000	3.60	0.01

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0890	YGC agar	2655	3.42	-0.50
HY0898	Dichloran 18 agar	16000	4.20	1.73
HY0977	YGC agar	2700	3.43	-0.48
HY1053	DRBC agar	3600	3.56	-0.12
HY1067	Dichloran 18 agar	3500	3.54	-0.15
HY1074	YGC agar	5200	3.72	0.34
HY1076	Dichloran 18 agar	3531	3.55	-0.14
HY1092	Malt extract agar	4370	3.64	0.12
HY1106	Rose Bengal agar	4200	3.62	0.07
HY1125	Dichloran 18 agar	4893	3.69	0.26
HY1148	DRBC agar	4200	3.62	0.07
HY1213	Dichloran 18 agar	6137	3.79	0.54
HY1225	Other	5400	3.73	0.38
HY1233	DRBC agar	4600	3.66	0.19
HY1239	OGYE agar	2000	3.30	-0.85
HY1242	Petrifilm	6400	3.81	0.60
HY1242	Other	6000	3.78	0.52
HY1243	Other	4100	3.61	0.04
HY1246	Dichloran 18 agar	2900	3.46	-0.39
HY1249	Dichloran 18 agar	5020	3.70	0.29
HY1263	DRBC agar	2900	3.46	-0.39
HY1274	YGC agar	<1		
HY1276	YGC agar	3426	3.53	-0.18
HY1306	DRBC agar	4200	3.62	0.07
HY1334	Petrifilm	5900	3.77	0.49
HY1471	YGC agar	3080	3.49	-0.31
HY1491	Malt extract agar	2350	3.37	-0.65
HY1498	DRBC agar	3900	3.59	-0.02
HY1511	DRBC agar	2800	3.45	-0.43
HY1563	Malt extract agar	1227	3.09	-1.45
HY1566	Dichloran 18 agar	300	2.48	-3.20
HY1586	Dichloran 18 agar	4800	3.68	0.24
HY1599	Dichloran 18 agar	4000	3.60	0.01
HY1627	Other	330000	5.52	5.49
HY1653	Malt extract agar	>300		
HY1666	DRBC agar	4300	3.63	0.10
HY1678	YGC agar	3200	3.51	-0.26
HY1681	OGYE agar	30000	4.48	2.51
HY1684	Other	2986	3.48	-0.35
HY1690	DRBC agar	3450	3.54	-0.17
HY1699	YGC agar	4000	3.60	0.01
HY1701	Petrifilm	12100	4.08	1.39
HY1706	Rose Bengal agar	2950	3.47	-0.37
HY1766	Malt extract agar	3500	3.54	-0.15
HY1788	OGYE agar	5109	3.71	0.32
HY1844	Dichloran 18 agar	3400	3.53	-0.19
HY1902	Other	1080	3.03	-1.61
HY1950	Petrifilm	3000	3.48	-0.34
HY2101	Other	5310	3.73	0.36
HY2121	OGYE agar	3200	3.51	-0.26
HY2124	Other	3400	3.53	-0.19

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and Mould (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2128	Other	4790	3.68	0.24
HY2131	Other	9200	3.96	1.05
HY2150	Dichloran 18 agar	3800	3.58	-0.05
HY2310	YGC agar	3220	3.51	-0.26
HY2333	Other	3700	3.57	-0.08
HY2400	Malt extract agar	4299	3.63	0.10
HY2413	Other	4300	3.63	0.10
HY2442	YGC agar	1400	3.15	-1.29
HY2448	YGC agar	4100	3.61	0.04
HY2477	Dichloran 18 agar	930	2.97	-1.80
HY2514	YGC agar	4010	3.60	0.02
HY2550	Petrifilm	3920	3.59	-0.01
HY2617	Other	<1		
HY2658	YGC agar	5182	3.71	0.33
HY2679	YGC agar	500	2.70	-2.57
HY2682	Petrifilm	9200	3.96	1.05
HY2695	Other	5500	3.74	0.41
HY2716	DRBC agar	22000	4.34	2.13
HY2748	Dichloran 18 agar	3000	3.48	-0.34
HY2807	YGC agar	1900	3.28	-0.91
HY2809	YGC agar	2000	3.30	-0.85
HY2841	Dichloran 18 agar	20100	4.30	2.02
HY2842	Dichloran 18 agar	340	2.53	-3.05
HY2856	Other	4300	3.63	0.10
HY2857	Other	4400	3.64	0.13
HY2863	Other	3300	3.52	-0.23
HY2894	Other	3582	3.55	-0.12
HY2896	DRBC agar	6200	3.79	0.56
HY2904	Rose Bengal agar	3300	3.52	-0.23
HY2912	YGC agar	25450	4.41	2.31
HY2913	YGC agar	4300	3.63	0.10
HY2918	Dichloran 18 agar	3500	3.54	-0.15
HY2918	Other	1650	3.22	-1.09
HY2929	Other	131	2.12	-4.23
HY2931	YGC agar	3100	3.49	-0.30

Quantitative Statistics

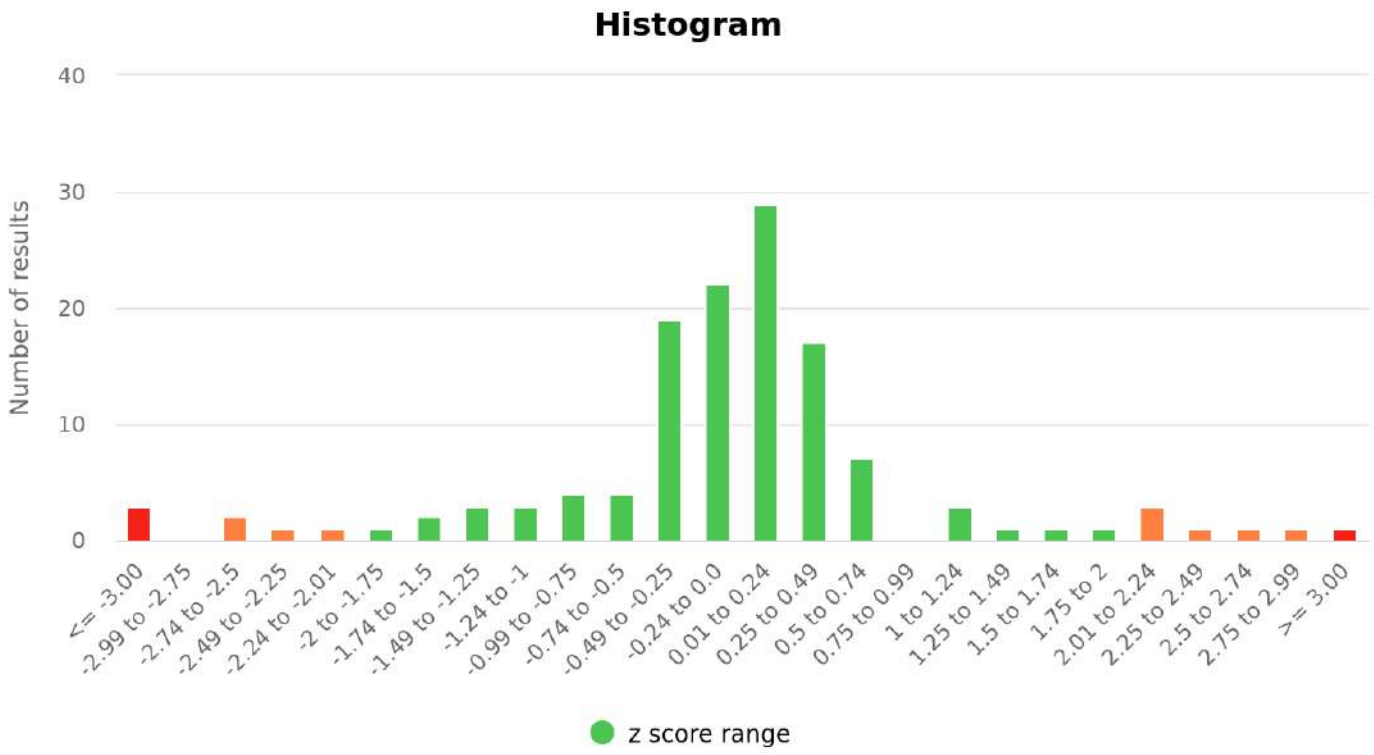
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	3.60	0.02	0.35	N/A	2.90 to 4.30	89.3%	7.6%	3.1%
	cfu/200µl	3960	N/A	N/A	N/A	790 to 19846	89.3%	7.6%	3.1%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	136	6	3.56	3.60	0.36	0.16	2.12 to 4.58
	cfu/200µl	136	6	N/A	N/A	N/A	N/A	131 to 38000

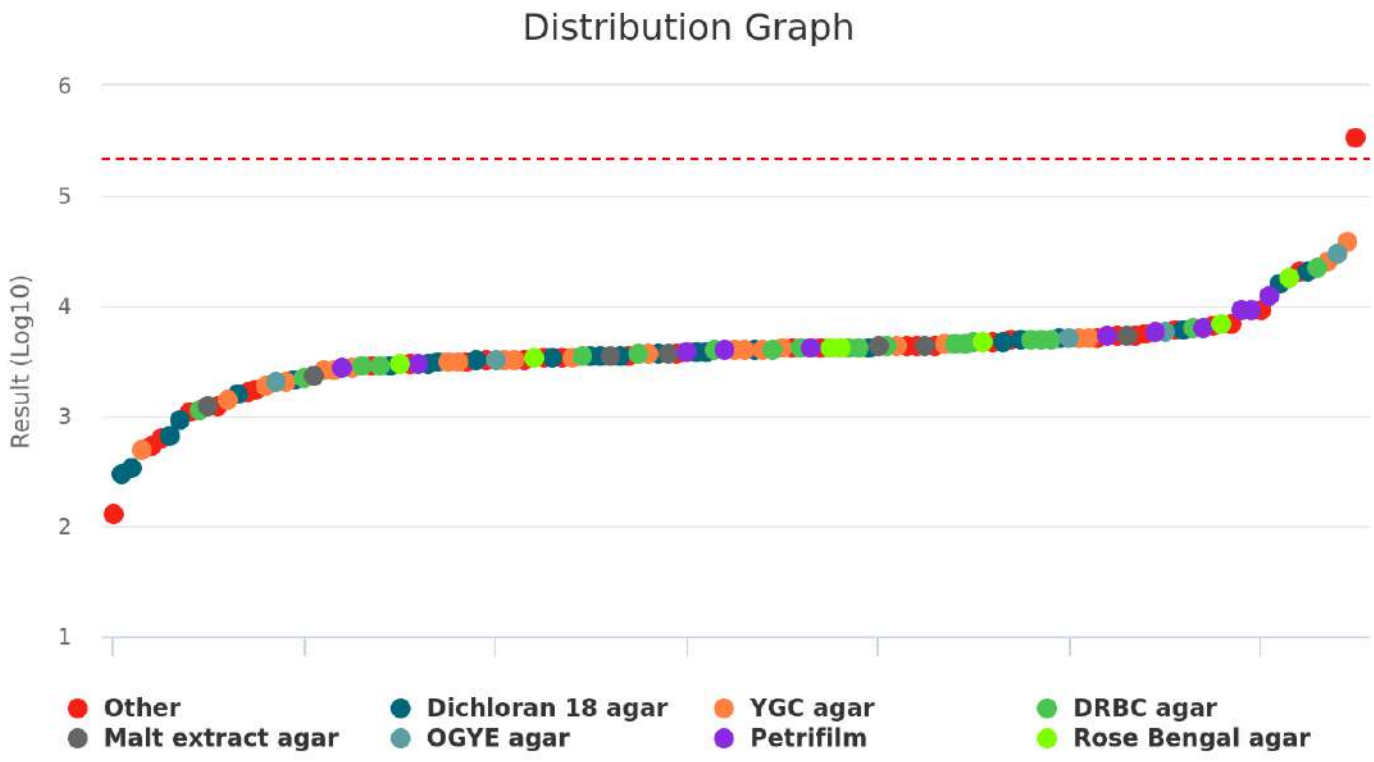
Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and Mould (Direct count)

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and Mould (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	20	0	15	Log10	3.62	0.099	3.06 to 4.34	95.0	5.0	0.0
Dichloran 18 agar	25	0	18	Log10	3.54	0.121	2.48 to 4.30	84.0	8.0	8.0
Malt extract agar	10	3	7	Log10	3.57	0.107	3.09 to 3.73	100.0	0.0	0.0
OGYE agar	5	0	4	Log10	3.71	0.301	3.30 to 4.48	80.0	20.0	0.0
Other	34	2	25	Log10	3.59	0.193	2.12 to 4.30	84.8	9.1	6.1
Petrifilm	11	0	8	Log10	3.72	0.221	3.43 to 4.08	100.0	0.0	0.0
Rose Bengal agar	7	0	5	Log10	3.62	0.155	3.47 to 4.26	100.0	0.0	0.0
YGC agar	24	1	18	Log10	3.53	0.153	2.70 to 4.58	87.0	13.0	0.0

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	DRBC agar	1890	3.28	0.49
HY0029	DRBC agar	65000	4.81	3.16
HY0036	DRBC agar	192	2.28	-1.23
HY0036	YGC agar	236	2.37	-1.07
HY0036	Dichloran 18 agar	184	2.26	-1.26
HY0037	Other	2300	3.36	0.64
HY0042	YGC agar	60	1.78	-2.10
HY0048	Rose Bengal agar	1009	3.00	0.02
HY0058	YGC agar	3900	3.59	1.04
HY0077	Other	1300	3.11	0.21
HY0106	Dichloran 18 agar	330	2.52	-0.82
HY0170	Dichloran 18 agar	410	2.61	-0.66
HY0183	YGC agar	1144	3.06	0.12
HY0222	Other	980	2.99	0.00
HY0247	Other	2300	3.36	0.64
HY0253	DRBC agar	1400	3.15	0.27
HY0263	Other	40	1.60	-2.41
HY0297	Other	130	2.11	-1.52
HY0301	Other	2900	3.46	0.82
HY0324	Dichloran 18 agar	3500	3.54	0.96
HY0328	Dichloran 18 agar	1300	3.11	0.21
HY0338	Other	86000	4.93	3.37
HY0380	Malt extract agar	<1		
HY0389	Petrifilm	2200	3.34	0.61
HY0396	DRBC agar	1300	3.11	0.21
HY0403	Petrifilm	2900	3.46	0.82
HY0446	Malt extract agar	>200		
HY0457	Malt extract agar	20	1.30	-2.93
HY0467	DRBC agar	620	2.79	-0.34
HY0476	Rose Bengal agar	1000	3.00	0.02
HY0485	YGC agar	180	2.26	-1.28
HY0526	Other	780	2.89	-0.17
HY0572	Other	180	2.26	-1.28
HY0602	Rose Bengal agar	300	2.48	-0.89
HY0605	Petrifilm	3300	3.52	0.91
HY0605	Other	2300	3.36	0.64
HY0629	OGYE agar	1600	3.20	0.37
HY0655	YGC agar	650	2.81	-0.31
HY0697	Dichloran 18 agar	420	2.62	-0.64
HY0697	Other	380	2.58	-0.71
HY0715	Rose Bengal agar	5200	3.72	1.26
HY0719	Dichloran 18 agar	440	2.64	-0.60
HY0739	Malt extract agar	100	2.00	-1.72
HY0750	YGC agar	1100	3.04	0.09
HY0755	Petrifilm	1110	3.05	0.09
HY0758	Other	<2		
HY0765	DRBC agar	2900	3.46	0.82
HY0765	Dichloran 18 agar	2400	3.38	0.67
HY0765	Other	1500	3.18	0.32
HY0786	Petrifilm	480	2.68	-0.54

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0786	Other	520	2.72	-0.48
HY0789	DRBC agar	49000	4.69	2.95
HY0789	Petrifilm	7600	3.88	1.54
HY0789	Dichloran 18 agar	7400	3.87	1.52
HY0830	DRBC agar	200	2.30	-1.20
HY0852	Other	34	1.53	-2.53
HY0859	YGC agar	1000	3.00	0.02
HY0890	YGC agar	325	2.51	-0.83
HY0893	Other	13000	4.11	1.95
HY0898	Dichloran 18 agar	1100	3.04	0.09
HY0977	Other	1050	3.02	0.05
HY1023	Other	500000	5.70	4.69
HY1053	DRBC agar	500	2.70	-0.51
HY1067	Dichloran 18 agar	680	2.83	-0.28
HY1071	DRBC agar	18400	4.26	2.21
HY1074	YGC agar	260	2.41	-1.00
HY1076	Dichloran 18 agar	407	2.61	-0.66
HY1092	Malt extract agar	240	2.38	-1.06
HY1097	Dichloran 18 agar	4700	3.67	1.18
HY1106	Rose Bengal agar	1400	3.15	0.27
HY1121	Other	3900	3.59	1.04
HY1125	Dichloran 18 agar	641	2.81	-0.32
HY1148	DRBC agar	950	2.98	-0.02
HY1213	Dichloran 18 agar	1450	3.16	0.29
HY1220	Rose Bengal agar	20	1.30	-2.93
HY1225	Other	770	2.89	-0.18
HY1233	DRBC agar	2150	3.33	0.59
HY1239	OGYE agar	310	2.49	-0.87
HY1243	Other	1060	3.03	0.06
HY1246	Dichloran 18 agar	2100	3.32	0.57
HY1249	Dichloran 18 agar	190	2.28	-1.24
HY1263	DRBC agar	670	2.83	-0.29
HY1274	YGC agar	<50		
HY1276	YGC agar	1320	3.12	0.22
HY1306	DRBC agar	2110	3.32	0.58
HY1313	Dichloran 18 agar	3300	3.52	0.91
HY1334	Petrifilm	540	2.73	-0.45
HY1471	YGC agar	1870	3.27	0.49
HY1485	Dichloran 18 agar	820	2.91	-0.13
HY1491	Malt extract agar	1080	3.03	0.07
HY1498	DRBC agar	920	2.96	-0.05
HY1511	DRBC agar	450	2.65	-0.59
HY1563	Malt extract agar	117	2.07	-1.60
HY1586	Dichloran 18 agar	382	2.58	-0.71
HY1599	Other	480	2.68	-0.54
HY1627	Other	88000	4.94	3.39
HY1653	Malt extract agar	47	1.67	-2.29
HY1666	OGYE agar	19200	4.28	2.24
HY1678	YGC agar	115	2.06	-1.61
HY1681	OGYE agar	500	2.70	-0.51
HY1682	Petrifilm	730	2.86	-0.22

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and mould (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1684	Other	656	2.82	-0.30
HY1690	DRBC agar	1400	3.15	0.27
HY1699	YGC agar	1300	3.11	0.21
HY1701	Petrifilm	8000	3.90	1.58
HY1712	Other	595	2.77	-0.38
HY1748	OGYE agar	1200	3.08	0.15
HY1766	Malt extract agar	1100	3.04	0.09
HY1788	OGYE agar	3152	3.50	0.88
HY1844	Dichloran 18 agar	320	2.51	-0.84
HY1902	Petrifilm	500	2.70	-0.51
HY1950	Petrifilm	2900	3.46	0.82
HY2101	Other	790	2.90	-0.16
HY2121	OGYE agar	110	2.04	-1.65
HY2124	Other	170	2.23	-1.32
HY2128	Other	1400	3.15	0.27
HY2131	Other	830	2.92	-0.13
HY2150	Dichloran 18 agar	441	2.64	-0.60
HY2310	YGC agar	720	2.86	-0.23
HY2320	YGC agar	900	2.95	-0.06
HY2333	YGC agar	1620	3.21	0.38
HY2360	Petrifilm	60	1.78	-2.10
HY2400	Malt extract agar	119	2.08	-1.59
HY2413	Other	1800	3.26	0.46
HY2448	YGC agar	355	2.55	-0.76
HY2477	Dichloran 18 agar	730	2.86	-0.22
HY2514	YGC agar	870	2.94	-0.09
HY2550	Petrifilm	90	1.95	-1.80
HY2560	Other	270	2.43	-0.97
HY2617	Other	7600	3.88	1.54
HY2658	YGC agar	13700	4.14	1.99
HY2679	YGC agar	60	1.78	-2.10
HY2682	Petrifilm	5400	3.73	1.28
HY2682	Dichloran 18 agar	7000	3.85	1.48
HY2695	Other	140	2.15	-1.46
HY2748	Dichloran 18 agar	1500	3.18	0.32
HY2807	YGC agar	28000	4.45	2.52
HY2809	YGC agar	8	0.90	-3.62
HY2841	Dichloran 18 agar	13100	4.12	1.95
HY2842	Dichloran 18 agar	200	2.30	-1.20
HY2856	Other	4000	3.60	1.06
HY2857	Other	1900	3.28	0.50
HY2863	Other	1500	3.18	0.32
HY2873	DRBC agar	3800	3.58	1.02
HY2894	Other	2600	3.41	0.73
HY2896	DRBC agar	100	2.00	-1.72
HY2896	Dichloran 18 agar	600	2.78	-0.37
HY2904	Rose Bengal agar	100	2.00	-1.72
HY2908	DRBC agar	6480000	6.81	6.62
HY2912	YGC agar	650	2.81	-0.31
HY2913	YGC agar	1500	3.18	0.32
HY2918	Dichloran 18 agar	350	2.54	-0.78

Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and mould (Swab count)

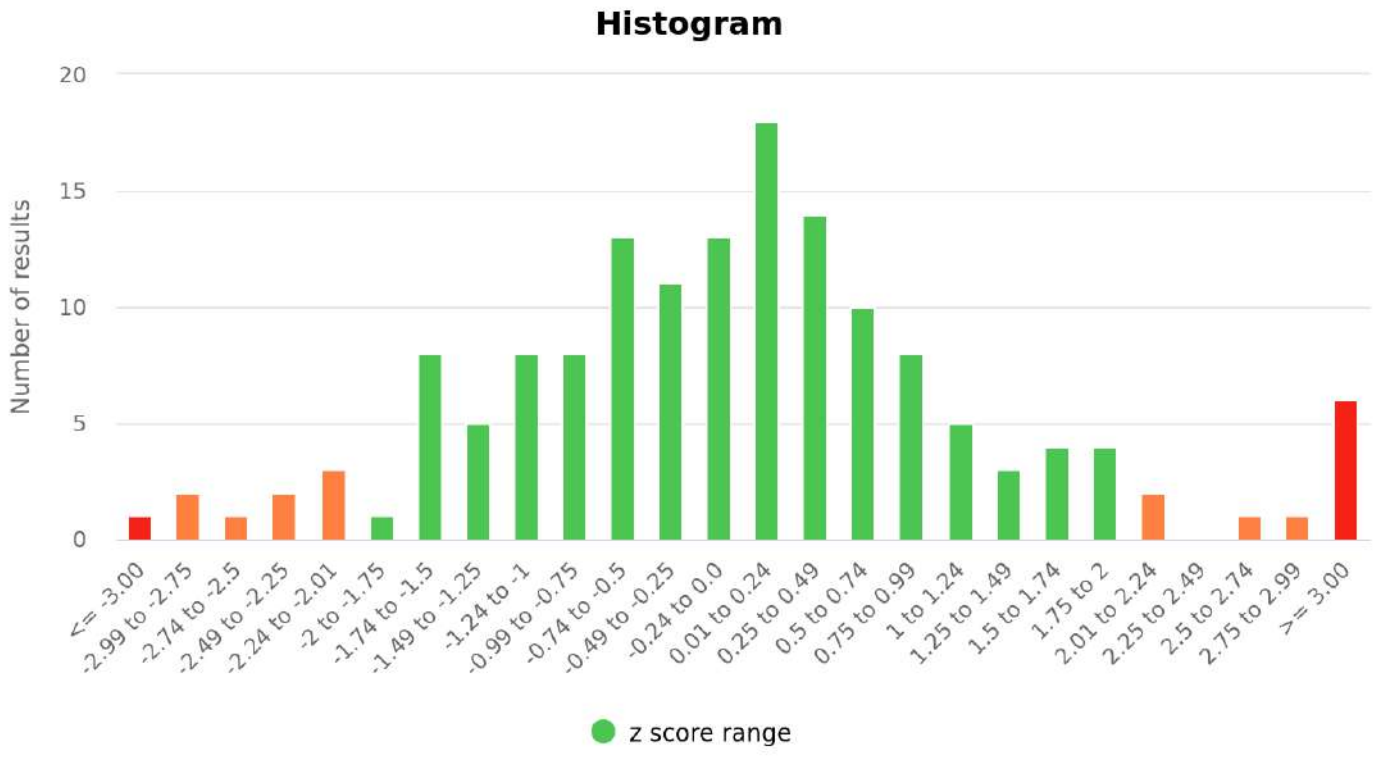
Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2918	Other	190	2.28	-1.24
HY2928	Petrifilm	330000	5.52	4.38
HY2929	Other	11900	4.08	1.88
HY2931	YGC agar	1300	3.11	0.21

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.99	0.06	0.58	N/A	1.84 to 4.14	87.5%	7.9%	4.6%
	cfu/plate	980	N/A	N/A	N/A	69 to 13962	87.5%	7.9%	4.6%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	156	5	2.99	2.99	0.77	0.58	0.90 to 5.70
	cfu/plate	156	5	N/A	N/A	N/A	N/A	8 to 500000

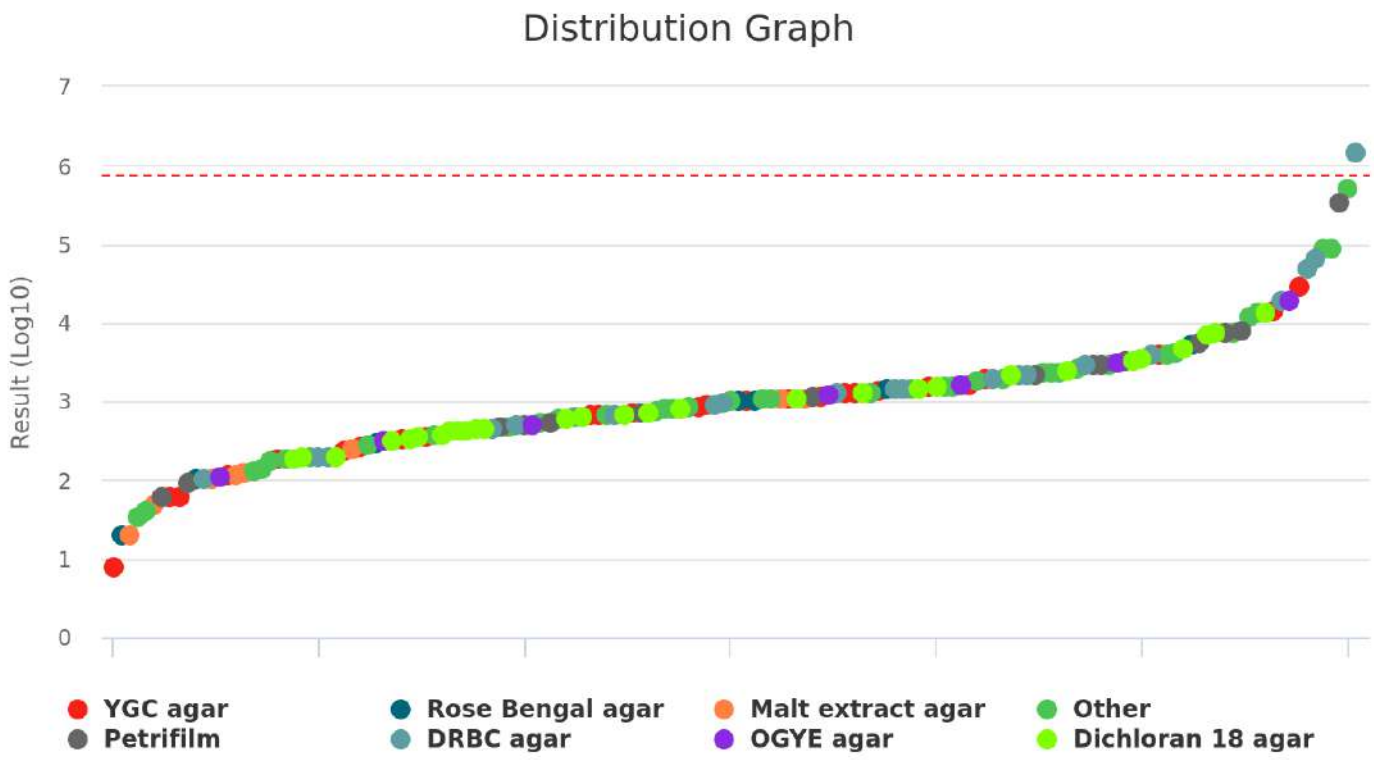
Histogram



Sample: 1 - Surface testing using swabbing techniques

Analyte: Yeast and mould (Swab count)

Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	21	1	13	Log10	3.13	0.497	2.00 to 4.81	81.0	9.5	9.5
Dichloran 18 agar	29	0	19	Log10	2.83	0.466	2.26 to 4.12	100.0	0.0	0.0
Malt extract agar	10	2	6	Log10	2.07	0.525	1.30 to 3.04	75.0	25.0	0.0
OGYE agar	7	0	4	Log10	3.08	0.622	2.04 to 4.28	85.7	14.3	0.0
Other	40	1	26	Log10	3.03	0.510	1.53 to 5.70	87.2	5.1	7.7
Petrifilm	15	0	10	Log10	3.34	0.798	1.78 to 5.52	86.7	6.7	6.7
Rose Bengal agar	7	0	4	Log10	3.00	0.775	1.30 to 3.72	85.7	14.3	0.0
YGC agar	27	1	17	Log10	2.95	0.436	0.90 to 4.45	84.6	11.5	3.8

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	VRBGA PP 37	470	2.67	0.95
HY0029	VRBGA PP 37	156	2.19	-0.42
HY0036	VRBGA PP 37	318	2.50	0.46
HY0037	Other	290	2.46	0.35
HY0045	VRBGA PP 30	142	2.15	-0.54
HY0048	VRBGA PP 37	154	2.19	-0.44
HY0054	VRBGA PP 37	1844	3.27	2.64
HY0077	Other	250	2.40	0.16
HY0087	VRBGA PP 37	170	2.23	-0.31
HY0106	Other	120	2.08	-0.75
HY0158	VRBGA PP 37	35	1.54	-2.28
HY0162	VRBGA PP 37	546	2.74	1.13
HY0169	VRBGA PP 37	130	2.11	-0.65
HY0170	VRBGA PP 37	48	1.68	-1.88
HY0183	VRBGA PP 37	775	2.89	1.57
HY0184	VRBGA PP 37	170	2.23	-0.31
HY0222	Other	280	2.45	0.30
HY0245	VRBGA PP 37	190	2.28	-0.18
HY0253	VRBGA PP 37	240	2.38	0.11
HY0297	Other	197	2.29	-0.13
HY0301	Other	590	2.77	1.23
HY0324	VRBGA PP 37	325	2.51	0.49
HY0326	VRBGA PP 37	16400	4.21	5.36
HY0328	VRBGA PP 37	180	2.26	-0.24
HY0338	Petrifilm	1200	3.08	2.11
HY0351	VRBGA PP 37	160	2.20	-0.39
HY0370	VRBGA PP 37	170	2.23	-0.31
HY0380	Other	284	2.45	0.32
HY0389	Petrifilm	180	2.26	-0.24
HY0396	VRBGA PP 37	150	2.18	-0.47
HY0403	Petrifilm	200	2.30	-0.11
HY0403	VRBGA PP 37	200	2.30	-0.11
HY0411	VRBGA PP 37	190	2.28	-0.18
HY0446	Other	>200		
HY0467	VRBGA PP 37	63	1.80	-1.55
HY0476	VRBGA PP 37	240	2.38	0.11
HY0485	VRBGA PP 37	550	2.74	1.14
HY0493	VRBGA PP 37	1000	3.00	1.88
HY0499	VRBGA PP 37	136	2.13	-0.59
HY0516	Petrifilm	278	2.44	0.30
HY0516	VRBGA PP 37	245	2.39	0.14
HY0526	VRBGA PP 37	240	2.38	0.11
HY0544	Other	380	2.58	0.68
HY0572	Other	230	2.36	0.06
HY0602	VRBGA PP 37	400	2.60	0.75
HY0604	Other	219	2.34	0.00
HY0629	VRBGA PP 37	340	2.53	0.55
HY0655	VRBGA PP 30	500	2.70	1.02
HY0693	VRBGA PP 37	123	2.09	-0.72
HY0697	VRBGA PP 37	60	1.78	-1.61

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0715	VRBGA PP 37	1000	3.00	1.88
HY0719	VRBGA PP 37	170	2.23	-0.31
HY0737	VRBGA PP 37	140	2.15	-0.56
HY0740	VRBGA PP 30	310	2.49	0.43
HY0755	Petrifilm	213	2.33	-0.03
HY0758	Other	180	2.26	-0.24
HY0765	Petrifilm	220	2.34	0.01
HY0765	Other	200	2.30	-0.11
HY0779	VRBGA PP 37	1668	3.22	2.52
HY0786	Petrifilm	98	1.99	-1.00
HY0789	Petrifilm	25	1.40	-2.69
HY0845	VRBGA PP 37	360	2.56	0.62
HY0852	Other	180	2.26	-0.24
HY0859	VRBGA PP 37	400	2.60	0.75
HY0876	VRBGA PP 37	200	2.30	-0.11
HY0898	VRBGA PP 37	380	2.58	0.68
HY0918	Petrifilm	34	1.53	-2.31
HY0950	VRBGA PP 37	300	2.48	0.39
HY0977	VRBGA PP 37	170	2.23	-0.31
HY0996	Petrifilm	3900	3.59	3.57
HY1011	Other	280	2.45	0.30
HY1017	Petrifilm	30	1.48	-2.47
HY1018	Other	295	2.47	0.37
HY1019	Petrifilm	33	1.52	-2.35
HY1020	Petrifilm	52	1.72	-1.78
HY1021	Other	2	0.30	-5.83
HY1022	Petrifilm	26	1.41	-2.64
HY1049	VRBGA PP 37	450	2.65	0.89
HY1061	VRBGA PP 37	280	2.45	0.30
HY1067	VRBGA PP 37	230	2.36	0.06
HY1074	VRBGA PP 37	13	1.11	-3.50
HY1076	VRBGA PP 37	120	2.08	-0.75
HY1092	Other	480	2.68	0.97
HY1105	VRBGA PP 37	350	2.54	0.58
HY1106	VRBGA PP 37	600	2.78	1.25
HY1132	Other	5	0.70	-4.69
HY1148	VRBGA PP 37	200	2.30	-0.11
HY1166	Other	230	2.36	0.06
HY1171	VRBGA PP 37	178	2.25	-0.26
HY1213	VRBGA PP 37	468	2.67	0.94
HY1225	VRBGA PP 30	145	2.16	-0.51
HY1232	Petrifilm	189	2.28	-0.18
HY1233	Petrifilm	258	2.41	0.20
HY1239	VRBGA PP 37	400	2.60	0.75
HY1242	Petrifilm	200	2.30	-0.11
HY1242	Other	140	2.15	-0.56
HY1243	Other	200	2.30	-0.11
HY1246	VRBGA PP 30	180	2.26	-0.24
HY1249	Other	140	2.15	-0.56
HY1263	VRBGA PP 37	230	2.36	0.06
HY1274	VRBGA PP 37	140	2.15	-0.56

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1276	Other	37	1.57	-2.21
HY1285	VRBGA PP 37	70	1.85	-1.42
HY1288	VRBGA PP 37	950	2.98	1.82
HY1290	VRBGA PP 37	450	2.65	0.89
HY1292	VRBGA PP 37	190	2.28	-0.18
HY1306	VRBGA PP 37	304	2.48	0.41
HY1334	Petrifilm	120	2.08	-0.75
HY1411	VRBGA PP 37	150	2.18	-0.47
HY1471	VRBGA PP 37	180	2.26	-0.24
HY1495	VRBGA PP 37	61	1.79	-1.59
HY1498	VRBGA PP 37	370	2.57	0.65
HY1511	VRBGA PP 37	241	2.38	0.12
HY1515	VRBGA PP 37	280	2.45	0.30
HY1530	VRBGA PP 37	426	2.63	0.83
HY1552	VRBGA PP 37	260	2.41	0.21
HY1566	VRBGA PP 37	150	2.18	-0.47
HY1627	Petrifilm	1400	3.15	2.30
HY1641	VRBGA PP 30	4700	3.67	3.80
HY1653	Other	305	2.48	0.41
HY1666	Other	165	2.22	-0.35
HY1678	VRBGA PP 37	79	1.90	-1.27
HY1681	VRBGA PP 37	1130	3.05	2.04
HY1684	Petrifilm	327	2.51	0.50
HY1699	VRBGA PP 30	330	2.52	0.51
HY1701	Petrifilm	260	2.41	0.21
HY1706	VRBGA PP 37	180	2.26	-0.24
HY1766	VRBGA PP 37	220	2.34	0.01
HY1788	VRBGA PP 37	229	2.36	0.06
HY1844	VRBGA PP 37	390	2.59	0.72
HY1880	VRBGA PP 37	159	2.20	-0.40
HY1950	Petrifilm	53	1.72	-1.76
HY2101	VRBGA PP 37	300	2.48	0.39
HY2105	VRBGA PP 37	67	1.83	-1.47
HY2121	VRBGA PP 37	130	2.11	-0.65
HY2123	VRBGA PP 37	6200	3.79	4.15
HY2124	Other	130	2.11	-0.65
HY2125	Petrifilm	460	2.66	0.92
HY2128	Other	381	2.58	0.69
HY2131	VRBGA PP 37	360	2.56	0.62
HY2150	Other	11400	4.06	4.90
HY2310	VRBGA PP 30	210	2.32	-0.05
HY2312	VRBGA PP 37	98	1.99	-1.00
HY2327	VRBGA PP 30	1900	3.28	2.68
HY2333	VRBGA PP 37	290	2.46	0.35
HY2402	VRBGA PP 37	4440	3.65	3.73
HY2405	VRBGA PP 37	310	2.49	0.43
HY2407	VRBGA PP 37	115	2.06	-0.80
HY2410	VRBGA PP 37	70	1.85	-1.42
HY2411	VRBGA PP 37	67	1.83	-1.47
HY2412	VRBGA PP 37	8	0.90	-4.11
HY2462	Other	210	2.32	-0.05

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2477	VRBGA PP 37	<10		
HY2514	VRBGA PP 30	340	2.53	0.55
HY2619	Other	109	2.04	-0.87
HY2630	VRBGA PP 37	108	2.03	-0.88
HY2650	VRBGA PP 37	950	2.98	1.82
HY2658	Petrifilm	286	2.46	0.33
HY2679	VRBGA PP 37	85	1.93	-1.17
HY2682	Petrifilm	25	1.40	-2.69
HY2690	Petrifilm	20	1.30	-2.97
HY2695	Other	750	2.88	1.53
HY2716	Petrifilm	5500	3.74	4.00
HY2748	VRBGA PP 30	955	2.98	1.83
HY2750	VRBGA PP 37	274	2.44	0.28
HY2756	Other	40	1.60	-2.11
HY2802	VRBGA PP 37	200	2.30	-0.11
HY2807	VRBGA PP 37	5900	3.77	4.09
HY2821	Petrifilm	10	1.00	-3.83
HY2823	VRBGA PP 37	190	2.28	-0.18
HY2826	VRBGA PP 37	370	2.57	0.65
HY2834	VRBGA PP 37	740	2.87	1.51
HY2841	VRBGA PP 37	900	2.95	1.75
HY2842	Other	<10		
HY2856	Other	200	2.30	-0.11
HY2857	VRBGA PP 37	130	2.11	-0.65
HY2863	VRBGA PP 37	140	2.15	-0.56
HY2866	Petrifilm	10	1.00	-3.83
HY2872	VRBGA PP 37	1170	3.07	2.08
HY2894	VRBGA PP 37	155	2.19	-0.43
HY2895	VRBGA PP 37	1400	3.15	2.30
HY2896	VRBGA PP 37	320	2.51	0.47
HY2904	VRBGA PP 37	200	2.30	-0.11
HY2907	Petrifilm	425	2.63	0.82
HY2912	VRBGA PP 37	1010	3.00	1.90
HY2913	VRBGA PP 37	380	2.58	0.68
HY2918	VRBGA PP 37	250	2.40	0.16
HY2918	Other	170	2.23	-0.31
HY2929	VRBGA PP 37	93	1.97	-1.06
HY2931	VRBGA PP 37	44	1.64	-1.99

Quantitative Statistics

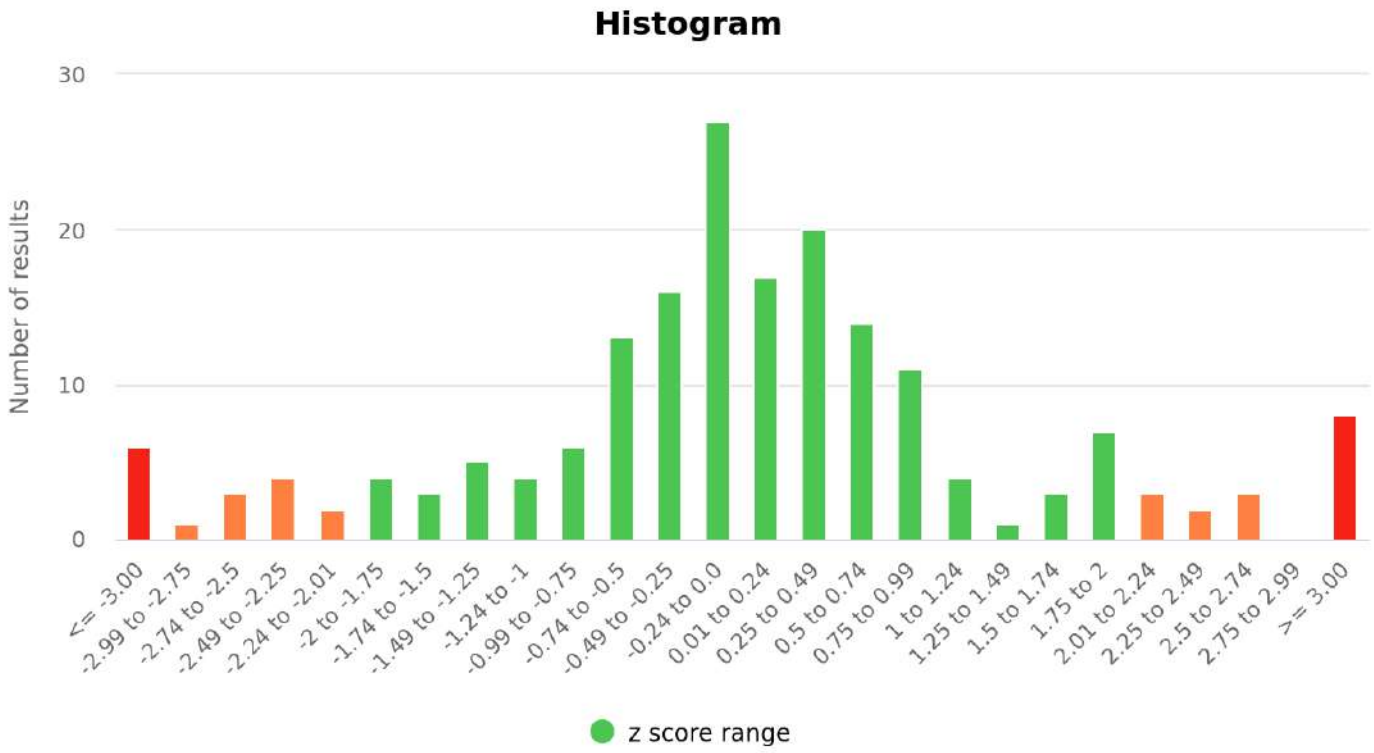
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.34	0.03	0.35	N/A	1.64 to 3.04	82.9%	9.6%	7.5%
	cfu/200µl	219	N/A	N/A	N/A	44 to 1098	82.9%	9.6%	7.5%

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Direct count)

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	190	5	2.35	2.34	0.52	0.31	0.70 to 4.06
	cfu/200µl	190	5	N/A	N/A	N/A	N/A	5 to 11400

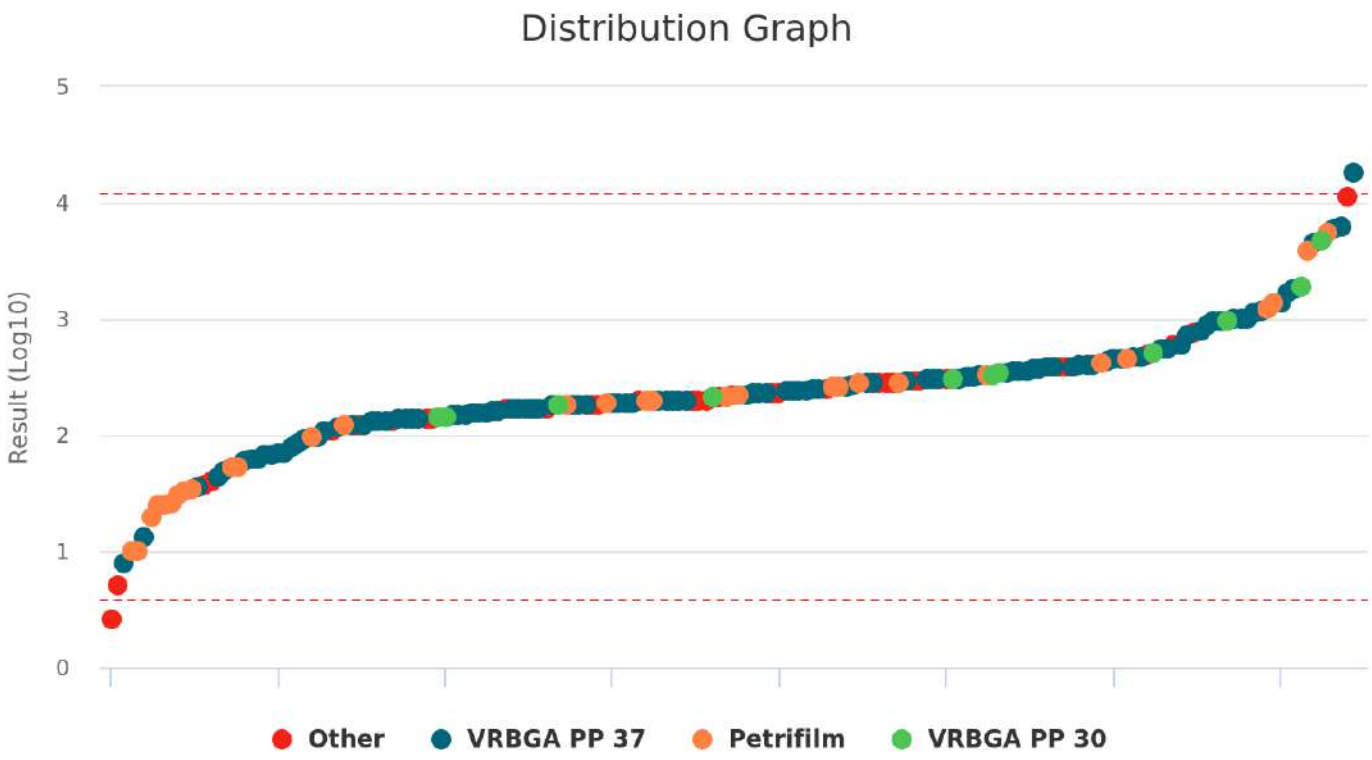
Histogram



Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Direct count)

Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
Other	36	3	19	Log10	2.32	0.208	0.70 to 4.06	85.3	5.9	8.8
Petrifilm	30	0	16	Log10	2.29	0.696	1.00 to 3.74	56.7	30.0	13.3
VRBGA PP 30	11	0	6	Log10	2.52	0.390	2.15 to 3.67	81.8	9.1	9.1
VRBGA PP 37	113	2	59	Log10	2.36	0.320	0.90 to 3.79	89.3	5.4	5.4

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	VRBGA PP 37	320	2.51	1.13
HY0007	VRBGA PP 37	200	2.30	0.67
HY0029	VRBGA PP 37	<100.0		
HY0036	VRBGA PP 37	143	2.16	0.35
HY0037	Other	110	2.04	0.09
HY0042	VRBGA PP 37	<1		
HY0045	VRBGA PP 30	<50		
HY0048	VRBGA PP 37	30	1.48	-1.17
HY0054	VRBGA PP 37	<10		
HY0058	VRBGA PP 37	70	1.85	-0.35
HY0077	Other	300	2.48	1.07
HY0087	VRBGA PP 37	100	2.00	0.00
HY0106	Other	32	1.51	-1.11
HY0158	VRBGA PP 37	20	1.30	-1.57
HY0162	VRBGA PP 37	116	2.06	0.14
HY0169	VRBGA PP 37	110	2.04	0.09
HY0170	VRBGA PP 37	<10		
HY0183	VRBGA PP 37	40	1.60	-0.89
HY0184	VRBGA PP 37	140	2.15	0.33
HY0222	Other	110	2.04	0.09
HY0245	VRBGA PP 37	30	1.48	-1.17
HY0247	VRBGA PP 37	200	2.30	0.67
HY0253	VRBGA PP 37	72	1.86	-0.32
HY0256	VRBGA PP 37	280	2.45	1.00
HY0256	MPN	220	2.34	0.77
HY0264	VRBGA PP 37	200	2.30	0.67
HY0297	Other	<10		
HY0301	Other	120	2.08	0.18
HY0324	VRBGA PP 37	300	2.48	1.07
HY0326	VRBGA PP 37	30	1.48	-1.17
HY0328	VRBGA PP 30	8000	3.90	4.26
HY0338	Petrifilm	600	2.78	1.74
HY0344	VRBGA PP 37	10	1.00	-2.24
HY0351	VRBGA PP 37	82	1.91	-0.19
HY0370	VRBGA PP 37	43	1.63	-0.82
HY0380	Other	137	2.14	0.31
HY0389	Petrifilm	140	2.15	0.33
HY0396	VRBGA PP 37	45	1.65	-0.78
HY0403	Petrifilm	200	2.30	0.67
HY0403	VRBGA PP 37	100	2.00	0.00
HY0411	VRBGA PP 37	40	1.60	-0.89
HY0417	VRBGA PP 37	130	2.11	0.26
HY0446	Other	>200		
HY0467	VRBGA PP 37	20	1.30	-1.57
HY0476	VRBGA PP 37	110	2.04	0.09
HY0485	VRBGA PP 37	20	1.30	-1.57
HY0493	VRBGA PP 37	45	1.65	-0.78
HY0499	VRBGA PP 37	5	0.70	-2.91
HY0526	VRBGA PP 37	90	1.95	-0.10
HY0543	VRBGA PP 37	160	2.20	0.46

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0544	Other	110	2.04	0.09
HY0572	Other	60	1.78	-0.50
HY0602	VRBGA PP 37	100	2.00	0.00
HY0604	Other	5	0.70	-2.91
HY0605	Petrifilm	800	2.90	2.02
HY0629	VRBGA PP 37	120	2.08	0.18
HY0655	VRBGA PP 30	130	2.11	0.26
HY0693	VRBGA PP 37	6	0.78	-2.74
HY0697	VRBGA PP 37	10	1.00	-2.24
HY0715	VRBGA PP 37	310	2.49	1.10
HY0719	VRBGA PP 37	80	1.90	-0.22
HY0737	VRBGA PP 37	70	1.85	-0.35
HY0740	VRBGA PP 30	90	1.95	-0.10
HY0750	Other	100	2.00	0.00
HY0755	Petrifilm	10	1.00	-2.24
HY0758	Other	60	1.78	-0.50
HY0765	Petrifilm	110	2.04	0.09
HY0765	Other	160	2.20	0.46
HY0779	VRBGA PP 37	48	1.68	-0.71
HY0786	Petrifilm	9	0.95	-2.34
HY0789	Petrifilm	100	2.00	0.00
HY0789	VRBGA PP 37	200	2.30	0.67
HY0844	VRBGA PP 37	100	2.00	0.00
HY0845	VRBGA PP 37	5800	3.76	3.95
HY0852	Other	9	0.95	-2.34
HY0859	VRBGA PP 37	180	2.26	0.57
HY0876	VRBGA PP 37	70	1.85	-0.35
HY0893	Petrifilm	<1000.0		
HY0898	VRBGA PP 37	<100.0		
HY0916	Petrifilm	60	1.78	-0.50
HY0918	Petrifilm	10	1.00	-2.24
HY0950	VRBGA PP 37	50	1.70	-0.67
HY0977	Other	40	1.60	-0.89
HY0996	Petrifilm	<100		
HY1011	Other	28	1.45	-1.24
HY1014	Petrifilm	30	1.48	-1.17
HY1017	Petrifilm	100	2.00	0.00
HY1018	Other	15	1.18	-1.85
HY1019	Petrifilm	<1		
HY1020	Petrifilm	50	1.70	-0.67
HY1021	Other	10	1.00	-2.24
HY1022	Petrifilm	30	1.48	-1.17
HY1023	VRBGA PP 37	30000	4.48	5.55
HY1042	Other	70	1.85	-0.35
HY1049	VRBGA PP 37	90	1.95	-0.10
HY1061	VRBGA PP 37	<100.0		
HY1067	VRBGA PP 37	58	1.76	-0.53
HY1071	VRBGA PP 37	900	2.95	2.14
HY1074	VRBGA PP 37	<10		
HY1076	VRBGA PP 37	20	1.30	-1.57
HY1092	Other	<10		

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1097	Other	220	2.34	0.77
HY1105	VRBGA PP 37	70	1.85	-0.35
HY1106	VRBGA PP 37	240	2.38	0.85
HY1121	VRBGA PP 37	120	2.08	0.18
HY1148	VRBGA PP 37	60	1.78	-0.50
HY1166	Other	100	2.00	0.00
HY1171	VRBGA PP 37	60	1.78	-0.50
HY1196	Other	350	2.54	1.22
HY1213	Other	250	2.40	0.89
HY1220	VRBGA PP 37	<10		
HY1225	VRBGA PP 30	60	1.78	-0.50
HY1232	Petrifilm	163	2.21	0.48
HY1233	Petrifilm	790	2.90	2.01
HY1239	VRBGA PP 37	40	1.60	-0.89
HY1243	Other	60	1.78	-0.50
HY1246	VRBGA PP 30	140	2.15	0.33
HY1249	Other	10	1.00	-2.24
HY1263	VRBGA PP 37	50	1.70	-0.67
HY1274	VRBGA PP 37	<50		
HY1276	Other	<10		
HY1285	VRBGA PP 37	10	1.00	-2.24
HY1288	VRBGA PP 37	210	2.32	0.72
HY1290	VRBGA PP 37	240	2.38	0.85
HY1292	VRBGA PP 37	50	1.70	-0.67
HY1306	VRBGA PP 37	100	2.00	0.00
HY1313	Other	140	2.15	0.33
HY1315	Other	60	1.78	-0.50
HY1334	Petrifilm	40	1.60	-0.89
HY1411	VRBGA PP 37	100	2.00	0.00
HY1467	Petrifilm	<40		
HY1471	VRBGA PP 37	130	2.11	0.26
HY1485	Petrifilm	160	2.20	0.46
HY1485	VRBGA PP 37	130	2.11	0.26
HY1495	VRBGA PP 37	10	1.00	-2.24
HY1498	VRBGA PP 37	170	2.23	0.52
HY1511	VRBGA PP 37	123	2.09	0.20
HY1530	VRBGA PP 37	140	2.15	0.33
HY1552	VRBGA PP 37	<10		
HY1627	Petrifilm	390	2.59	1.32
HY1641	VRBGA PP 30	940	2.97	2.18
HY1653	Other	13	1.11	-1.98
HY1678	VRBGA PP 37	<1		
HY1681	VRBGA PP 37	250	2.40	0.89
HY1682	Petrifilm	35	1.54	-1.02
HY1684	Petrifilm	108	2.03	0.07
HY1699	VRBGA PP 30	100	2.00	0.00
HY1701	Petrifilm	60	1.78	-0.50
HY1712	VRBGA PP 37	21	1.32	-1.52
HY1748	VRBGA PP 37	<100.0		
HY1766	VRBGA PP 37	80	1.90	-0.22
HY1788	VRBGA PP 37	137	2.14	0.31

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1844	VRBGA PP 37	50	1.70	-0.67
HY1880	VRBGA PP 37	45	1.65	-0.78
HY1902	Petrifilm	1	0.00	-4.48
HY1950	Petrifilm	42	1.62	-0.84
HY2101	VRBGA PP 37	80	1.90	-0.22
HY2105	VRBGA PP 37	2	0.30	-3.81
HY2121	VRBGA PP 37	<10		
HY2123	VRBGA PP 37	6200	3.79	4.01
HY2124	Other	10	1.00	-2.24
HY2125	Petrifilm	90	1.95	-0.10
HY2128	Other	100	2.00	0.00
HY2131	VRBGA PP 37	45	1.65	-0.78
HY2150	Other	93	1.97	-0.07
HY2310	VRBGA PP 30	100	2.00	0.00
HY2312	VRBGA PP 37	54	1.73	-0.60
HY2320	VRBGA PP 30	600	2.78	1.74
HY2327	VRBGA PP 30	180	2.26	0.57
HY2333	VRBGA PP 37	90	1.95	-0.10
HY2364	VRBGA PP 37	120	2.08	0.18
HY2402	VRBGA PP 37	240	2.38	0.85
HY2405	VRBGA PP 37	100	2.00	0.00
HY2407	VRBGA PP 37	34	1.53	-1.05
HY2410	VRBGA PP 37	<5		
HY2411	VRBGA PP 37	300	2.48	1.07
HY2412	VRBGA PP 37	1	0.00	-4.48
HY2442	VRBGA PP 37	150	2.18	0.39
HY2477	VRBGA PP 37	<10		
HY2514	VRBGA PP 30	87	1.94	-0.14
HY2619	Other	100	2.00	0.00
HY2630	VRBGA PP 37	2000	3.30	2.91
HY2650	VRBGA PP 37	180	2.26	0.57
HY2658	Petrifilm	8600	3.93	4.33
HY2679	VRBGA PP 37	20	1.30	-1.57
HY2682	Petrifilm	200	2.30	0.67
HY2682	VRBGA PP 37	200	2.30	0.67
HY2695	Other	40	1.60	-0.89
HY2748	VRBGA PP 30	275	2.44	0.98
HY2750	VRBGA PP 37	<1		
HY2756	Other	20	1.30	-1.57
HY2798	VRBGA PP 37	4	0.60	-3.13
HY2802	VRBGA PP 37	81	1.91	-0.20
HY2807	VRBGA PP 37	71000	4.85	6.39
HY2821	Petrifilm	100	2.00	0.00
HY2826	VRBGA PP 37	<1000.0		
HY2834	VRBGA PP 37	21000	4.32	5.20
HY2841	VRBGA PP 37	600	2.78	1.74
HY2842	Other	<10		
HY2856	Other	190	2.28	0.62
HY2857	VRBGA PP 37	65	1.81	-0.42
HY2863	VRBGA PP 37	70	1.85	-0.35
HY2866	Petrifilm	20	1.30	-1.57

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2872	VRBGA PP 37	<100.0		
HY2873	Other	92	1.96	-0.08
HY2894	VRBGA PP 37	73	1.86	-0.31
HY2895	VRBGA PP 37	900	2.95	2.14
HY2896	VRBGA PP 37	150	2.18	0.39
HY2899	Other	<1000.0		
HY2901	Petrifilm	340	2.53	1.19
HY2904	VRBGA PP 37	120	2.08	0.18
HY2907	Petrifilm	<1000.0		
HY2908	VRBGA PP 37	460000	5.66	8.20
HY2912	VRBGA PP 37	<1000.0		
HY2913	VRBGA PP 37	140	2.15	0.33
HY2918	VRBGA PP 37	26	1.41	-1.31
HY2918	Other	18	1.26	-1.67
HY2928	Petrifilm	40000	4.60	5.83
HY2929	VRBGA PP 37	9000	3.95	4.38
HY2931	VRBGA PP 37	15	1.18	-1.85

Quantitative Statistics

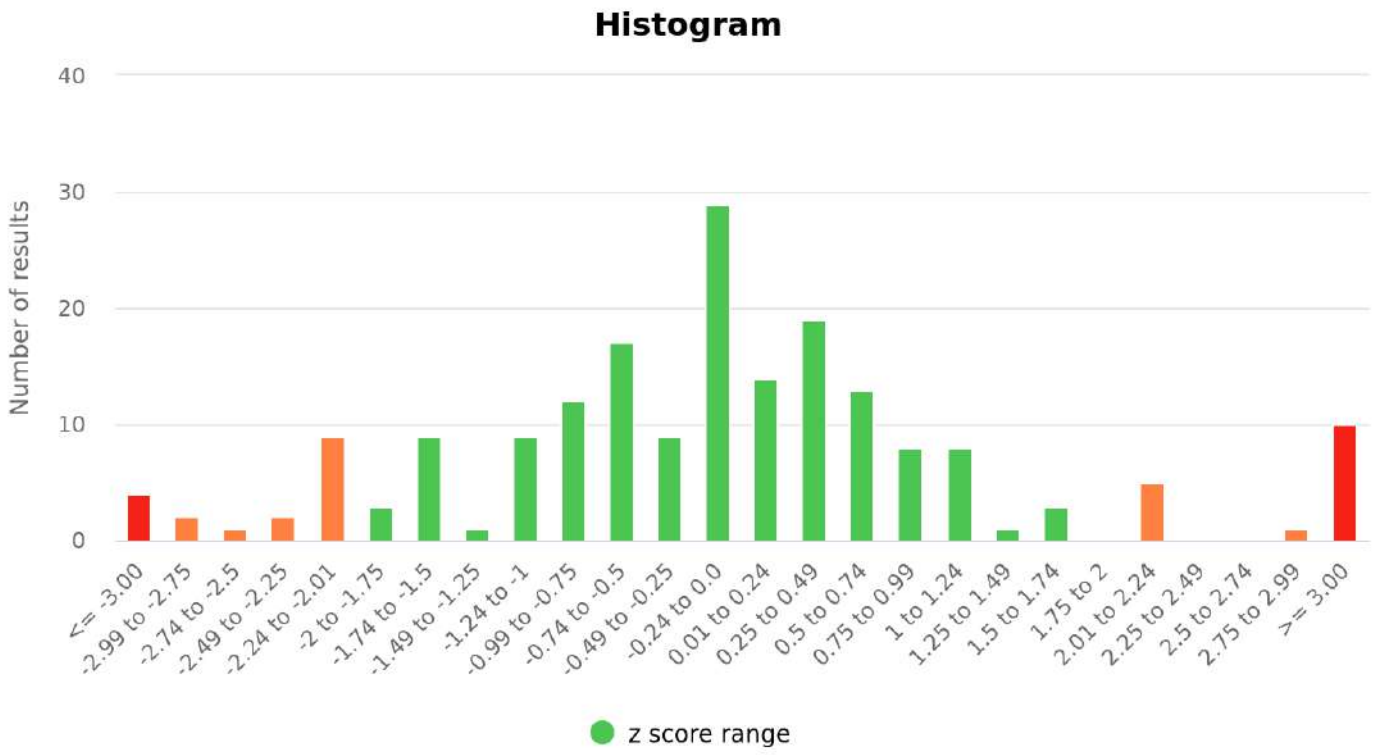
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2	0.04	0.45	N/A	1.11 to 2.89	82.0%	10.6%	7.4%
	cfu/plate	100	N/A	N/A	N/A	13 to 781	82.0%	10.6%	7.4%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	220	36	1.92	2	0.62	0.45	0.00 to 3.95
	cfu/plate	220	36	N/A	N/A	N/A	N/A	1 to 9000

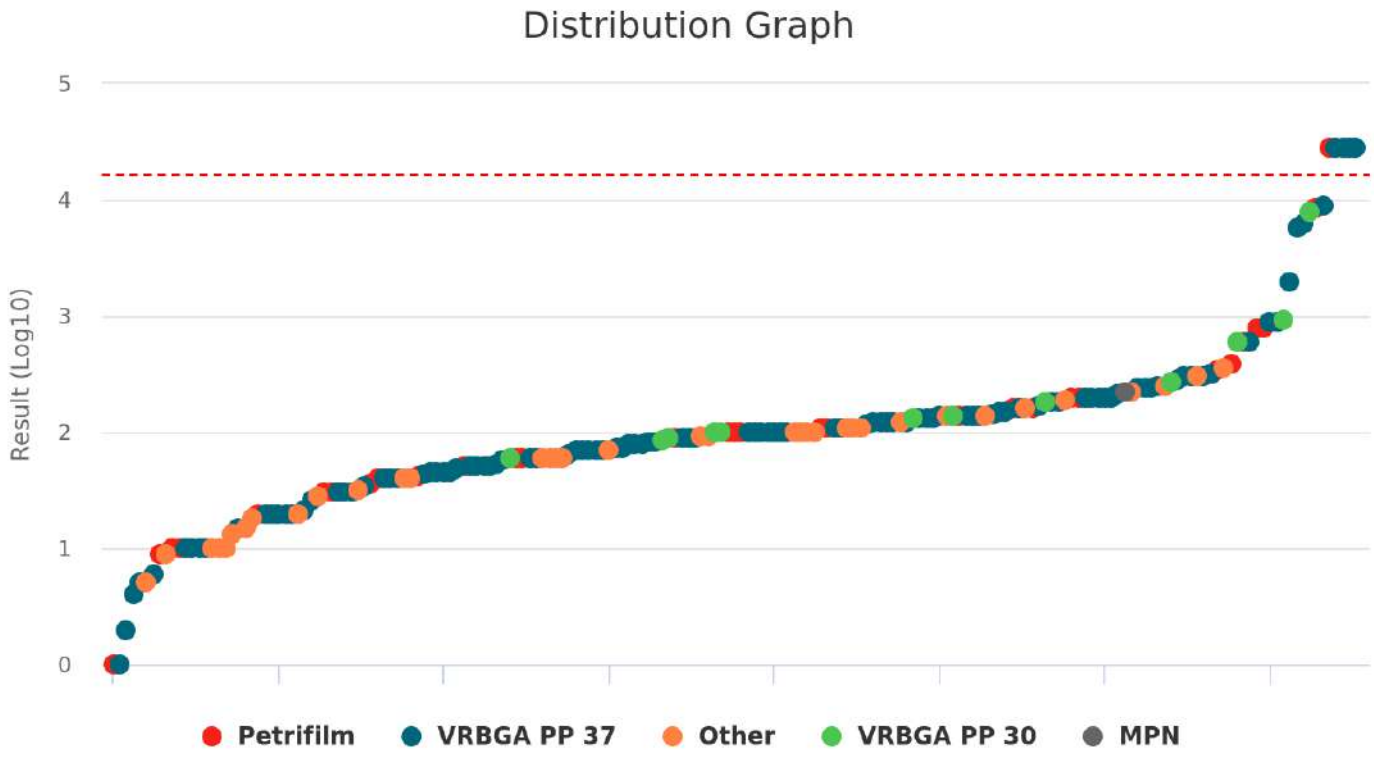
Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Sample: 1 - Surface testing using swabbing techniques

Analyte: Enterobacteriaceae (Swab count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	1	0	0	Log10	2.34	0.000	2.34 to 2.34	100.0	0.0	0.0
Other	42	6	19	Log10	1.90	0.446	0.70 to 2.54	86.1	13.9	0.0
Petrifilm	36	6	16	Log10	2.00	0.574	0.00 to 3.93	74.2	16.1	9.7
VRBGA PP 30	13	1	6	Log10	2.13	0.272	1.78 to 3.90	83.3	8.3	8.3
VRBGA PP 37	128	23	58	Log10	1.95	0.446	0.00 to 3.95	82.6	8.3	9.2

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	VRBA PP 37	460	2.66	1.03
HY0029	Other	158	2.20	-0.29
HY0036	VRBA PP 37	245	2.39	0.25
HY0037	VRBA PP 37	285	2.45	0.44
HY0054	VRBA PP 37	1295	3.11	2.32
HY0077	Other	200	2.30	0.00
HY0087	VRBA PP 30	200	2.30	0.00
HY0106	Other	270	2.43	0.37
HY0158	VRBA PP 37	35	1.54	-2.16
HY0170	VRBA PP 30	23	1.36	-2.68
HY0184	VRBA PP 30	170	2.23	-0.20
HY0222	Other	280	2.45	0.42
HY0245	VRBA PP 37	200	2.30	0.00
HY0253	VRBA PP 30	230	2.36	0.17
HY0301	Other	700	2.85	1.55
HY0320	VRBA PP 37	100	2.00	-0.86
HY0324	VRBA PP 30	320	2.51	0.58
HY0326	VRBA PP 30	18800	4.27	5.64
HY0328	VRBA PP 30	140	2.15	-0.44
HY0338	Petrifilm	1050	3.02	2.06
HY0351	VRBA PP 30	170	2.23	-0.20
HY0370	VRBA PP 37	140	2.15	-0.44
HY0380	Other	284	2.45	0.44
HY0389	Petrifilm	160	2.20	-0.28
HY0396	VRBA PP 37	140	2.15	-0.44
HY0403	Petrifilm	170	2.23	-0.20
HY0403	Other	130	2.11	-0.53
HY0411	VRBA PP 37	220	2.34	0.12
HY0446	Other	>200		
HY0467	VRBA PP 37	55	1.74	-1.60
HY0476	VRBA PP 37	220	2.34	0.12
HY0485	VRBA PP 37	575	2.76	1.31
HY0493	Petrifilm	1600	3.20	2.58
HY0499	Other	165	2.22	-0.24
HY0516	Petrifilm	209	2.32	0.05
HY0516	VRBA PP 37	210	2.32	0.06
HY0516	Other	200	2.30	0.00
HY0526	VRBA PP 37	200	2.30	0.00
HY0572	Other	230	2.36	0.17
HY0604	Other	210	2.32	0.06
HY0629	VRBA PP 37	320	2.51	0.58
HY0655	VRBA PP 30	360	2.56	0.73
HY0697	Other	130	2.11	-0.53
HY0737	Other	140	2.15	-0.44
HY0739	VRBA PP 30	300	2.48	0.50
HY0740	VRBA PP 30	200	2.30	0.00
HY0755	Petrifilm	198	2.30	-0.01
HY0758	Other	180	2.26	-0.13
HY0765	Petrifilm	180	2.26	-0.13
HY0765	Other	210	2.32	0.06

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0779	VRBA PP 37	1450	3.16	2.46
HY0786	Petrifilm	89	1.95	-1.00
HY0786	Other	87	1.94	-1.03
HY0789	Petrifilm	23	1.36	-2.68
HY0844	VRBA PP 37	140	2.15	-0.44
HY0852	Other	<1		
HY0859	Other	380	2.58	0.80
HY0890	VRBA PP 30	206	2.31	0.04
HY0898	VRBA PP 30	500	2.70	1.14
HY0950	VRBA PP 37	280	2.45	0.42
HY0952	Petrifilm	18	1.26	-2.99
HY0977	Petrifilm	170	2.23	-0.20
HY0996	Petrifilm	2600	3.41	3.18
HY1003	Petrifilm	10	1.00	-3.72
HY1011	VRBA PP 37	320	2.51	0.58
HY1015	Petrifilm	3000	3.48	3.36
HY1018	MPN	240	2.38	0.23
HY1049	VRBA PP 37	400	2.60	0.86
HY1061	VRBA PP 37	200	2.30	0.00
HY1067	VRBA PP 30	220	2.34	0.12
HY1074	VRBA PP 30	15	1.18	-3.21
HY1076	VRBA PP 37	135	2.13	-0.49
HY1087	Petrifilm	130	2.11	-0.53
HY1092	Other	480	2.68	1.09
HY1106	VRBA PP 37	400	2.60	0.86
HY1125	Other	207	2.32	0.04
HY1132	Other	5	0.70	-4.58
HY1148	Other	160	2.20	-0.28
HY1166	VRBA PP 37	190	2.28	-0.06
HY1171	VRBA PP 37	220	2.34	0.12
HY1232	Petrifilm	137	2.14	-0.47
HY1233	Petrifilm	222	2.35	0.13
HY1239	VRBA PP 30	120	2.08	-0.63
HY1242	Petrifilm	160	2.20	-0.28
HY1242	Other	240	2.38	0.23
HY1243	Other	180	2.26	-0.13
HY1246	VRBA PP 30	160	2.20	-0.28
HY1249	Other	140	2.15	-0.44
HY1263	VRBA PP 30	190	2.28	-0.06
HY1274	Other	120	2.08	-0.63
HY1276	Other	84	1.92	-1.08
HY1288	VRBA PP 37	400	2.60	0.86
HY1292	VRBA PP 30	240	2.38	0.23
HY1295	Other	200	2.30	0.00
HY1306	VRBA PP 37	252	2.40	0.29
HY1334	Petrifilm	100	2.00	-0.86
HY1368	Petrifilm	41	1.61	-1.97
HY1430	VRBA PP 30	130	2.11	-0.53
HY1471	VRBA PP 30	180	2.26	-0.13
HY1495	VRBA PP 37	49	1.69	-1.75
HY1498	Other	330	2.52	0.62

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1511	VRBA PP 30	228	2.36	0.16
HY1530	Other	230	2.36	0.17
HY1552	Other	300	2.48	0.50
HY1599	VRBA PP 37	1800	3.26	2.73
HY1627	Petrifilm	2000	3.30	2.86
HY1641	VRBA PP 30	4000	3.60	3.72
HY1653	Other	369	2.57	0.76
HY1666	Other	<1		
HY1678	VRBA PP 30	126	2.10	-0.57
HY1684	Petrifilm	286	2.46	0.44
HY1690	VRBA PP 37	225	2.35	0.15
HY1699	VRBA PP 30	290	2.46	0.46
HY1701	Petrifilm	260	2.41	0.33
HY1706	VRBA PP 37	160	2.20	-0.28
HY1766	VRBA PP 37	170	2.23	-0.20
HY1788	VRBA PP 37	204	2.31	0.02
HY1844	VRBA PP 30	240	2.38	0.23
HY1880	Other	181	2.26	-0.12
HY1950	Petrifilm	54	1.73	-1.62
HY1955	Other	405	2.61	0.88
HY2116	VRBA PP 30	1050	3.02	2.06
HY2121	VRBA PP 30	90	1.95	-0.99
HY2124	Other	<1		
HY2125	Petrifilm	240	2.38	0.23
HY2128	Other	372	2.57	0.77
HY2131	VRBA PP 30	360	2.56	0.73
HY2150	Other	169	2.23	-0.21
HY2310	VRBA PP 30	200	2.30	0.00
HY2312	VRBA PP 37	90	1.95	-0.99
HY2327	VRBA PP 30	1700	3.23	2.66
HY2333	VRBA PP 30	280	2.45	0.42
HY2407	VRBA PP 30	119	2.08	-0.64
HY2413	Other	297	2.47	0.49
HY2462	Other	180	2.26	-0.13
HY2514	VRBA PP 30	290	2.46	0.46
HY2550	Petrifilm	102	2.01	-0.84
HY2617	Other	36	1.56	-2.13
HY2679	VRBA PP 37	55	1.74	-1.60
HY2682	Petrifilm	23	1.36	-2.68
HY2690	Petrifilm	15	1.18	-3.21
HY2690	Other	20	1.30	-2.86
HY2742	Other	2960	3.47	3.34
HY2748	VRBA PP 30	1000	3.00	2.00
HY2758	VRBA PP 30	1100	3.04	2.12
HY2802	Other	235	2.37	0.20
HY2807	VRBA PP 30	4800	3.68	3.94
HY2809	VRBA PP 30	80	1.90	-1.14
HY2823	Other	200	2.30	0.00
HY2834	VRBA PP 37	890	2.95	1.85
HY2841	VRBA PP 37	400	2.60	0.86
HY2842	Other	<10		

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2856	VRBA PP 30	200	2.30	0.00
HY2857	VRBA PP 37	150	2.18	-0.36
HY2863	VRBA PP 37	130	2.11	-0.53
HY2866	Petrifilm	19	1.28	-2.92
HY2894	Other	173	2.24	-0.18
HY2895	VRBA PP 37	1200	3.08	2.22
HY2896	VRBA PP 37	300	2.48	0.50
HY2904	VRBA PP 37	220	2.34	0.12
HY2907	Petrifilm	420	2.62	0.92
HY2913	VRBA PP 30	370	2.57	0.76
HY2918	VRBA PP 37	190	2.28	-0.06
HY2918	Other	150	2.18	-0.36
HY2929	VRBA PP 37	72	1.86	-1.27
HY2931	Other	40	1.60	-2.00

Quantitative Statistics

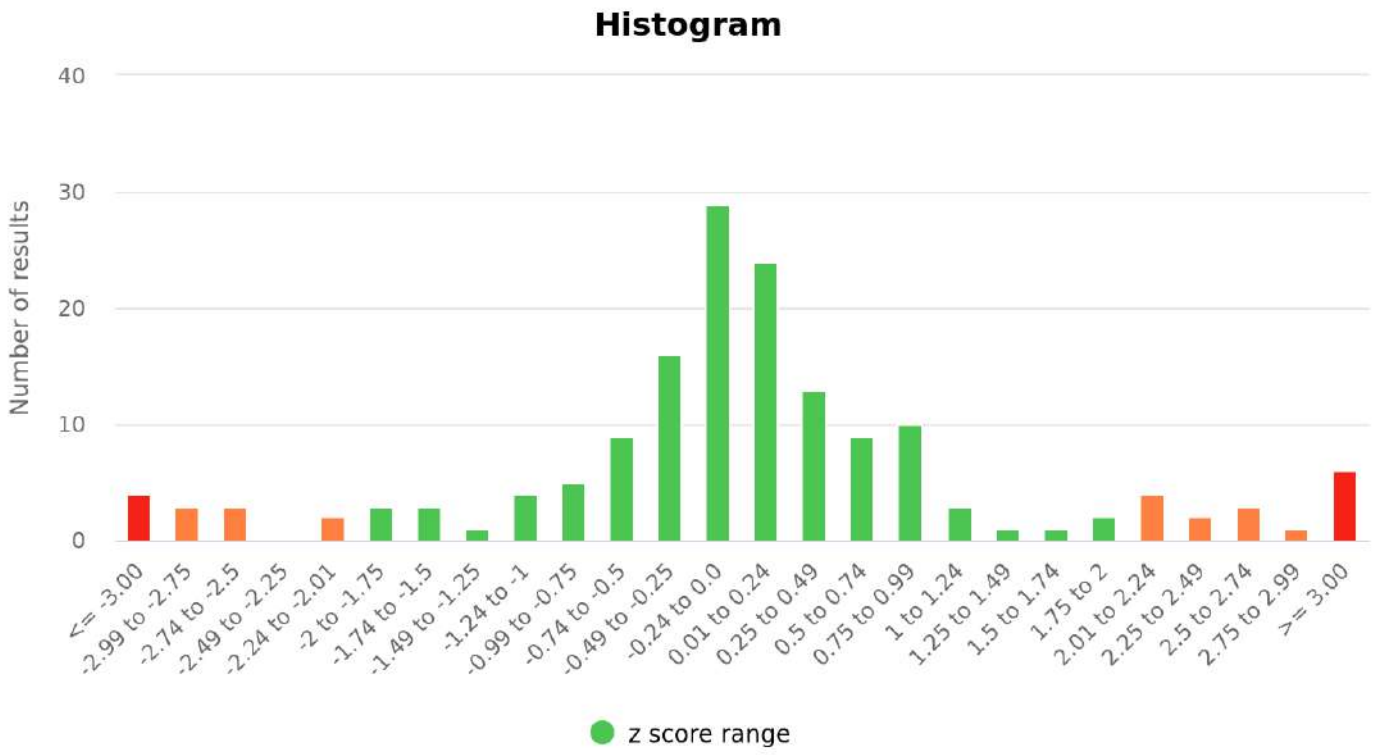
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.30	0.02	0.35	N/A	1.60 to 3.00	82.6%	11.2%	6.2%
	cfu/200µl	200	N/A	N/A	N/A	40 to 1002	82.6%	11.2%	6.2%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	166	6	2.31	2.30	0.48	0.25	0.70 to 3.68
	cfu/200µl	166	6	N/A	N/A	N/A	N/A	5 to 4800

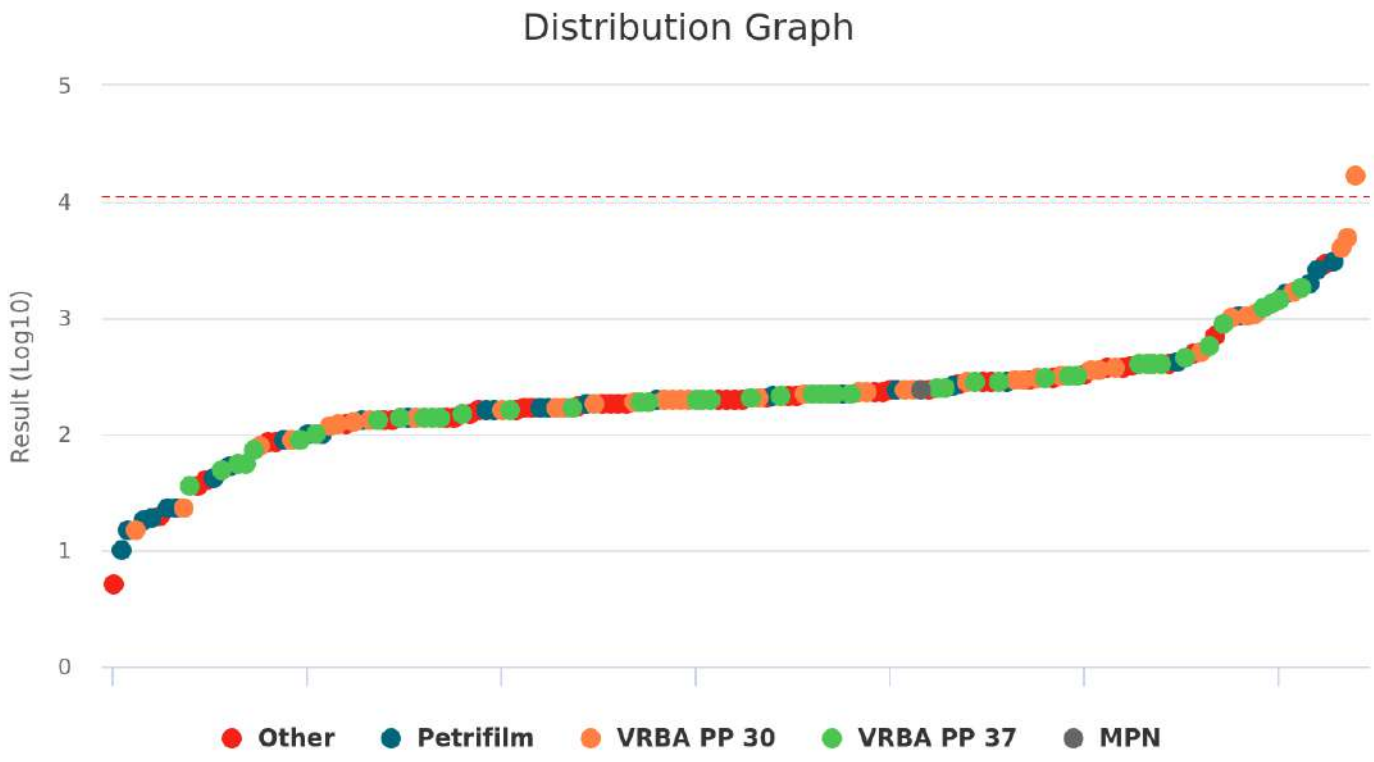
Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Direct count)

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	1	0	1	Log10	2.38	0.000	2.38 to 2.38	100.0	0.0	0.0
Other	50	5	30	Log10	2.30	0.217	0.70 to 3.47	91.1	4.4	4.4
Petrifilm	30	0	18	Log10	2.22	0.376	1.00 to 3.48	63.3	23.3	13.3
VRBA PP 30	40	1	24	Log10	2.34	0.241	1.18 to 3.68	80.0	10.0	10.0
VRBA PP 37	45	0	27	Log10	2.34	0.291	1.54 to 3.26	88.9	11.1	0.0

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	VRBA PP 37	305	2.48	1.17
HY0029	Other	<100.0		
HY0036	VRBA PP 37	110	2.04	0.10
HY0037	Other	105	2.02	0.05
HY0042	Other	10	1.00	-2.42
HY0054	VRBA PP 37	5	0.70	-3.15
HY0077	Other	200	2.30	0.73
HY0087	VRBA PP 30	100	2.00	0.00
HY0106	Other	45	1.65	-0.84
HY0158	VRBA PP 37	20	1.30	-1.69
HY0170	VRBA PP 30	<10		
HY0184	VRBA PP 30	100	2.00	0.00
HY0222	Other	110	2.04	0.10
HY0245	VRBA PP 37	20	1.30	-1.69
HY0253	VRBA PP 30	69	1.84	-0.39
HY0256	MPN	170	2.23	0.56
HY0256	VRBA PP 37	160	2.20	0.49
HY0264	VRBA PP 37	133	2.12	0.30
HY0301	Other	130	2.11	0.28
HY0320	VRBA PP 37	8500	3.93	4.67
HY0324	VRBA PP 30	300	2.48	1.15
HY0326	VRBA PP 30	20	1.30	-1.69
HY0328	VRBA PP 30	50	1.70	-0.73
HY0338	Petrifilm	550	2.74	1.79
HY0351	VRBA PP 30	82	1.91	-0.21
HY0370	VRBA PP 37	35	1.54	-1.10
HY0380	Other	137	2.14	0.33
HY0389	Petrifilm	140	2.15	0.35
HY0396	VRBA PP 37	45	1.65	-0.84
HY0403	Petrifilm	160	2.20	0.49
HY0403	Other	100	2.00	0.00
HY0411	VRBA PP 37	60	1.78	-0.54
HY0446	Other	>200		
HY0467	VRBA PP 37	30	1.48	-1.26
HY0476	VRBA PP 37	100	2.00	0.00
HY0485	VRBA PP 37	30	1.48	-1.26
HY0493	MPN	59	1.77	-0.55
HY0526	VRBA PP 37	84	1.92	-0.18
HY0543	Other	140	2.15	0.35
HY0572	Other	60	1.78	-0.54
HY0604	Other	1	0.00	-4.84
HY0605	Other	600	2.78	1.88
HY0629	VRBA PP 37	110	2.04	0.10
HY0655	VRBA PP 30	90	1.95	-0.11
HY0697	Other	20	1.30	-1.69
HY0737	Other	70	1.85	-0.37
HY0739	VRBA PP 30	<10		
HY0740	VRBA PP 30	80	1.90	-0.23
HY0750	VRBA PP 30	50	1.70	-0.73
HY0755	Petrifilm	20	1.30	-1.69

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0758	Other	60	1.78	-0.54
HY0765	Petrifilm	130	2.11	0.28
HY0765	Other	200	2.30	0.73
HY0779	VRBA PP 37	32	1.51	-1.20
HY0786	Petrifilm	9	0.95	-2.53
HY0786	Other	8	0.90	-2.65
HY0789	Petrifilm	300	2.48	1.15
HY0789	MPN	230	2.36	0.88
HY0789	VRBA PP 37	300	2.48	1.15
HY0844	VRBA PP 37	100	2.00	0.00
HY0852	Other	<1		
HY0859	Other	140	2.15	0.35
HY0890	Petrifilm	30	1.48	-1.26
HY0893	Petrifilm	<1000.0		
HY0898	VRBA PP 30	<100.0		
HY0950	VRBA PP 37	50	1.70	-0.73
HY0952	Petrifilm	<1000.0		
HY0977	Other	41	1.61	-0.94
HY0996	Petrifilm	<100		
HY1003	Petrifilm	150	2.18	0.43
HY1011	VRBA PP 37	24	1.38	-1.50
HY1015	Petrifilm	4	0.60	-3.38
HY1018	MPN	36	1.56	-1.07
HY1023	VRBA PP 37	20000	4.30	5.57
HY1042	Other	70	1.85	-0.37
HY1049	VRBA PP 37	80	1.90	-0.23
HY1061	VRBA PP 37	<100.0		
HY1067	VRBA PP 30	44	1.64	-0.86
HY1071	VRBA PP 37	800	2.90	2.18
HY1074	VRBA PP 30	<10		
HY1076	VRBA PP 37	30	1.48	-1.26
HY1087	Petrifilm	80	1.90	-0.23
HY1092	Other	<10		
HY1097	Other	190	2.28	0.67
HY1106	VRBA PP 37	180	2.26	0.62
HY1121	Other	110	2.04	0.10
HY1125	Other	78	1.89	-0.26
HY1148	Other	40	1.60	-0.96
HY1166	VRBA PP 37	<100.0		
HY1171	VRBA PP 37	140	2.15	0.35
HY1196	Other	250	2.40	0.96
HY1213	Other	50	1.70	-0.73
HY1220	VRBA PP 37	<10		
HY1232	Petrifilm	156	2.19	0.47
HY1233	Petrifilm	590	2.77	1.86
HY1239	VRBA PP 30	60	1.78	-0.54
HY1243	Other	60	1.78	-0.54
HY1246	VRBA PP 30	130	2.11	0.28
HY1249	Other	10	1.00	-2.42
HY1263	VRBA PP 30	40	1.60	-0.96
HY1274	Other	<50		

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1276	Other	50	1.70	-0.73
HY1288	VRBA PP 30	100	2.00	0.00
HY1292	VRBA PP 30	60	1.78	-0.54
HY1295	Other	12	1.08	-2.23
HY1306	VRBA PP 37	100	2.00	0.00
HY1311	Petrifilm	<1000.0		
HY1313	Other	130	2.11	0.28
HY1315	Other	80	1.90	-0.23
HY1334	Petrifilm	40	1.60	-0.96
HY1368	Petrifilm	38	1.58	-1.02
HY1430	VRBA PP 30	800	2.90	2.18
HY1430	Other	700	2.85	2.04
HY1467	Petrifilm	<40		
HY1471	VRBA PP 30	160	2.20	0.49
HY1485	Petrifilm	120	2.08	0.19
HY1485	Other	140	2.15	0.35
HY1495	VRBA PP 37	9	0.95	-2.53
HY1498	Other	110	2.04	0.10
HY1511	VRBA PP 30	105	2.02	0.05
HY1530	Other	290	2.46	1.12
HY1552	Other	<10		
HY1599	VRBA PP 37	200	2.30	0.73
HY1627	Petrifilm	420	2.62	1.51
HY1641	VRBA PP 30	800	2.90	2.18
HY1653	Other	15	1.18	-1.99
HY1666	VRBA PP 30	<100.0		
HY1678	VRBA PP 30	<1		
HY1682	Petrifilm	50	1.70	-0.73
HY1684	Petrifilm	92	1.96	-0.09
HY1690	VRBA PP 37	140	2.15	0.35
HY1699	VRBA PP 30	100	2.00	0.00
HY1701	Petrifilm	100	2.00	0.00
HY1748	Other	<100.0		
HY1766	VRBA PP 37	70	1.85	-0.37
HY1788	VRBA PP 37	126	2.10	0.24
HY1844	VRBA PP 30	40	1.60	-0.96
HY1880	Other	50	1.70	-0.73
HY1902	Petrifilm	1	0.00	-4.84
HY1950	Petrifilm	48	1.68	-0.77
HY1955	Other	140	2.15	0.35
HY2116	VRBA PP 30	160	2.20	0.49
HY2121	VRBA PP 30	<10		
HY2123	Other	8800	3.94	4.70
HY2124	Other	<1		
HY2125	Petrifilm	140	2.15	0.35
HY2128	Other	100	2.00	0.00
HY2131	VRBA PP 30	45	1.65	-0.84
HY2150	Other	15	1.18	-1.99
HY2310	VRBA PP 30	110	2.04	0.10
HY2312	VRBA PP 37	63	1.80	-0.49
HY2327	VRBA PP 30	130	2.11	0.28

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2333	VRBA PP 30	80	1.90	-0.23
HY2360	Petrifilm	<10		
HY2364	VRBA PP 37	145	2.16	0.39
HY2407	VRBA PP 30	38	1.58	-1.02
HY2413	Other	100	2.00	0.00
HY2442	VRBA PP 37	170	2.23	0.56
HY2514	VRBA PP 30	80	1.90	-0.23
HY2550	Petrifilm	<10		
HY2617	Other	<100.0		
HY2679	VRBA PP 37	20	1.30	-1.69
HY2682	Petrifilm	200	2.30	0.73
HY2682	VRBA PP 37	100	2.00	0.00
HY2686	VRBA PP 37	200	2.30	0.73
HY2742	Other	<10		
HY2748	VRBA PP 30	300	2.48	1.15
HY2785	Other	598	2.78	1.88
HY2802	Other	108	2.03	0.08
HY2807	VRBA PP 30	62000	4.79	6.75
HY2809	VRBA PP 30	1	0.00	-4.84
HY2834	VRBA PP 37	19000	4.28	5.51
HY2841	VRBA PP 37	300	2.48	1.15
HY2842	Other	<10		
HY2856	VRBA PP 30	190	2.28	0.67
HY2857	VRBA PP 37	65	1.81	-0.45
HY2863	VRBA PP 37	60	1.78	-0.54
HY2866	Petrifilm	<10		
HY2894	Other	100	2.00	0.00
HY2895	VRBA PP 37	800	2.90	2.18
HY2896	VRBA PP 37	130	2.11	0.28
HY2899	VRBA PP 37	<1000.0		
HY2901	Petrifilm	200	2.30	0.73
HY2904	VRBA PP 37	110	2.04	0.10
HY2907	Petrifilm	<1000.0		
HY2908	VRBA PP 37	460000	5.66	8.86
HY2913	VRBA PP 30	130	2.11	0.28
HY2918	VRBA PP 37	20	1.30	-1.69
HY2918	Other	15	1.18	-1.99
HY2923	VRBA PP 37	77	1.89	-0.27
HY2928	Petrifilm	30000	4.48	5.99
HY2929	VRBA PP 37	6900	3.84	4.45
HY2931	Other	13	1.11	-2.14

Quantitative Statistics

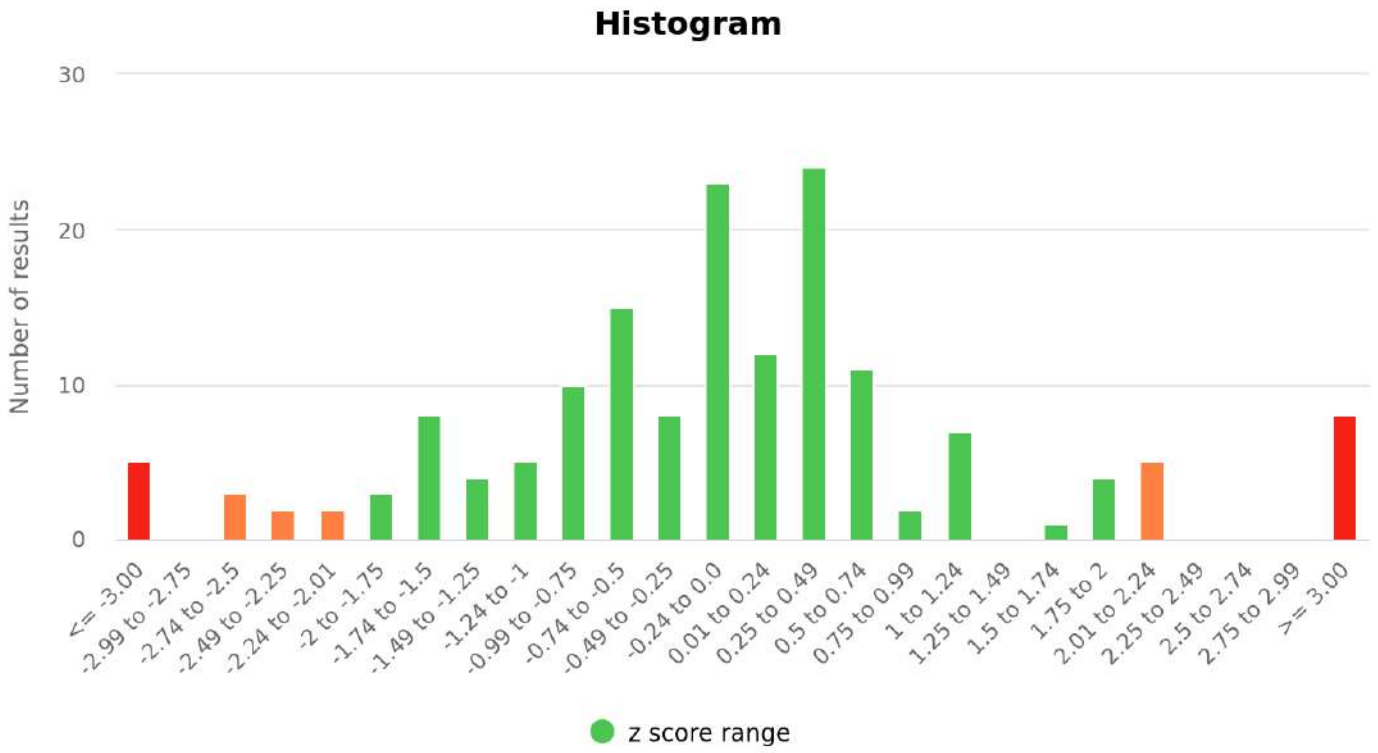
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2	0.04	0.41	N/A	1.17 to 2.83	84.6%	7.4%	8.0%
	cfu/plate	100	N/A	N/A	N/A	15 to 671	84.6%	7.4%	8.0%

Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Swab count)

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	193	36	1.92	2	0.58	0.41	0.00 to 3.94
	cfu/plate	193	36	N/A	N/A	N/A	N/A	1 to 8800

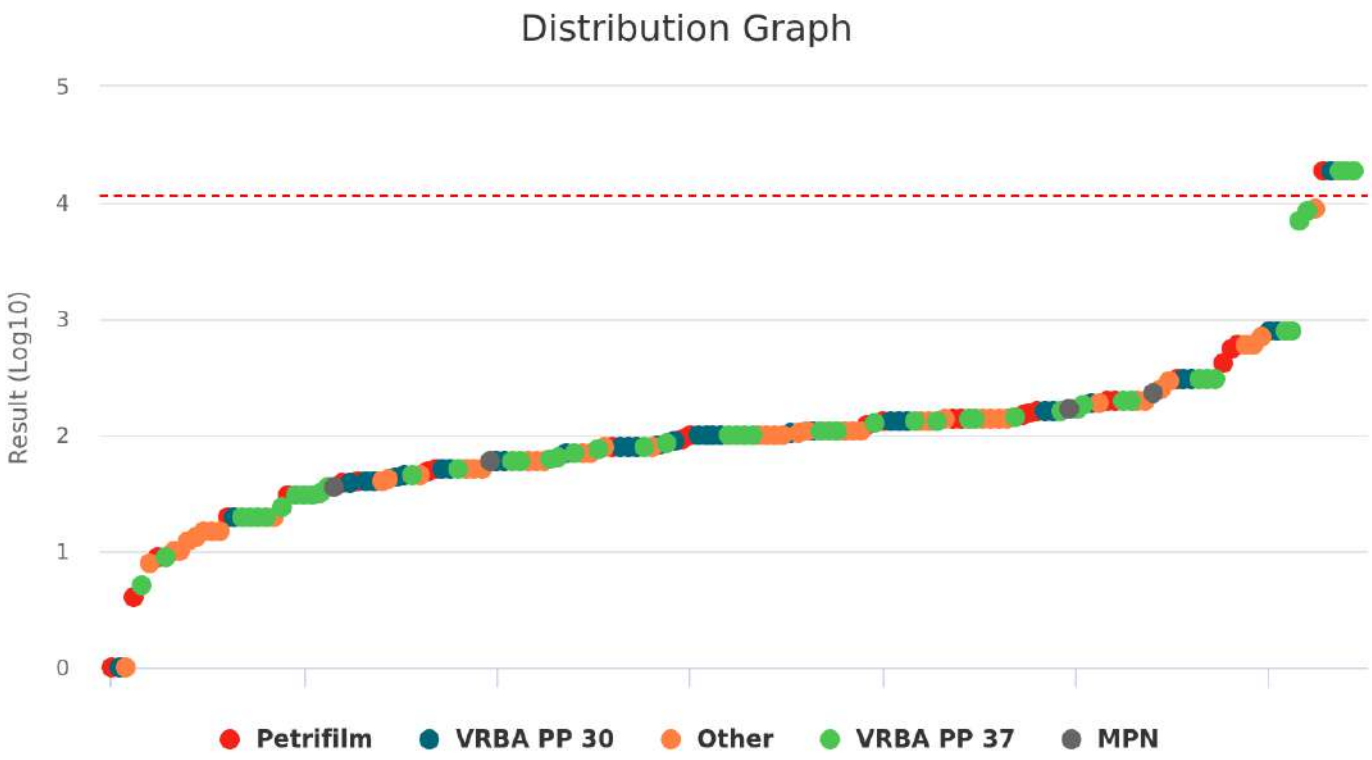
Histogram



Sample: 1 - Surface testing using swabbing techniques

Analyte: Coliforms (Swab count)

Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	4	0	2	Log10	2.00	0.438	1.56 to 2.36	100.0	0.0	0.0
Other	59	11	31	Log10	2.00	0.430	0.00 to 3.94	83.3	12.5	4.2
Petrifilm	35	10	18	Log10	2.08	0.564	0.00 to 2.77	84.6	3.8	11.5
VRBA PP 30	41	8	21	Log10	1.95	0.261	0.00 to 2.90	88.2	5.9	5.9
VRBA PP 37	54	7	28	Log10	2.00	0.379	0.70 to 3.93	82.0	6.0	12.0

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0001	TBX PP 37-44	455	2.66	1.15
HY0029	TBX PP 37-44	122	2.09	-0.49
HY0036	TBX PP 37-44	236	2.37	0.33
HY0037	Other	280	2.45	0.54
HY0045	TBX PP 37-44	88	1.94	-0.89
HY0054	Other	2215	3.35	3.11
HY0077	Other	190	2.28	0.06
HY0087	TBX PP 37-44	55	1.74	-1.47
HY0106	Other	220	2.34	0.25
HY0158	TBX PP 37-44	25	1.40	-2.45
HY0184	TBX PP 37-44	150	2.18	-0.23
HY0222	Other	280	2.45	0.54
HY0245	Other	290	2.46	0.59
HY0253	TBX PP 37-44	220	2.34	0.25
HY0297	Other	206	2.31	0.16
HY0320	TBX PP 37-44	64	1.81	-1.29
HY0324	TBX PP 37-44	315	2.50	0.69
HY0326	TBX PP 37-44	11000	4.04	5.10
HY0328	TBX PP 37-44	170	2.23	-0.07
HY0338	Petrifilm	425	2.63	1.06
HY0351	TBX PP 37-44	120	2.08	-0.51
HY0370	TBX PP 37-44	170	2.23	-0.07
HY0380	Other	284	2.45	0.56
HY0389	Petrifilm	160	2.20	-0.15
HY0396	TBX PP 37-44	110	2.04	-0.61
HY0403	Petrifilm	170	2.23	-0.07
HY0403	Other	130	2.11	-0.41
HY0411	Other	180	2.26	0.00
HY0446	Other	>200		
HY0467	TBX PP 37-44	58	1.76	-1.41
HY0476	TBX PP 37-44	220	2.34	0.25
HY0485	TBX PP 37-44	250	2.40	0.40
HY0493	Petrifilm	2000	3.30	2.98
HY0499	Other	5	0.70	-4.45
HY0516	Petrifilm	209	2.32	0.18
HY0516	TBX PP 37-44	183	2.26	0.02
HY0516	Other	190	2.28	0.06
HY0526	TBX PP 37-44	170	2.23	-0.07
HY0544	Other	380	2.58	0.92
HY0572	Other	230	2.36	0.30
HY0604	Other	210	2.32	0.19
HY0629	TBX PP 37-44	200	2.30	0.13
HY0655	TBX PP 37-44	300	2.48	0.63
HY0697	TBX PP 37-44	110	2.04	-0.61
HY0737	TBX PP 37-44	130	2.11	-0.41
HY0740	TBX PP 37-44	260	2.41	0.45
HY0755	Petrifilm	198	2.30	0.11
HY0758	Other	180	2.26	0.00
HY0765	Petrifilm	180	2.26	0.00
HY0765	Other	210	2.32	0.19

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY0779	TBX PP 37-44	914	2.96	2.01
HY0786	Petrifilm	88	1.94	-0.89
HY0786	Other	87	1.94	-0.91
HY0789	Petrifilm	23	1.36	-2.56
HY0844	TBX PP 37-44	120	2.08	-0.51
HY0852	Other	180	2.26	0.00
HY0859	TBX PP 37-44	380	2.58	0.92
HY0898	TBX PP 37-44	350	2.54	0.82
HY0950	TBX PP 37-44	230	2.36	0.30
HY0952	Petrifilm	18	1.26	-2.86
HY0977	Petrifilm	170	2.23	-0.07
HY1003	Petrifilm	52	1.72	-1.54
HY1011	TBX PP 37-44	290	2.46	0.59
HY1015	Petrifilm	3000	3.48	3.49
HY1037	TBX PP 37-44	190	2.28	0.06
HY1049	TBX PP 37-44	400	2.60	0.99
HY1061	TBX PP 37-44	230	2.36	0.30
HY1067	TBX PP 37-44	240	2.38	0.35
HY1074	TBX PP 37-44	17	1.23	-2.93
HY1076	TBX PP 37-44	100	2.00	-0.73
HY1087	Petrifilm	120	2.08	-0.51
HY1092	Other	480	2.68	1.21
HY1106	TBX PP 37-44	400	2.60	0.99
HY1125	Other	207	2.32	0.17
HY1148	Other	140	2.15	-0.32
HY1171	TBX PP 37-44	39	1.59	-1.90
HY1213	TBX PP 37-44	423	2.63	1.06
HY1232	Petrifilm	137	2.14	-0.34
HY1233	Petrifilm	222	2.35	0.26
HY1242	Petrifilm	160	2.20	-0.15
HY1242	Other	160	2.20	-0.15
HY1243	Other	180	2.26	0.00
HY1246	TBX PP 37-44	140	2.15	-0.32
HY1249	Other	140	2.15	-0.32
HY1263	TBX PP 37-44	140	2.15	-0.32
HY1274	Other	120	2.08	-0.51
HY1276	Other	84	1.92	-0.95
HY1285	TBX PP 37-44	45	1.65	-1.72
HY1288	TBX PP 37-44	360	2.56	0.86
HY1292	TBX PP 37-44	110	2.04	-0.61
HY1295	Other	200	2.30	0.13
HY1306	TBX PP 37-44	244	2.39	0.37
HY1334	Petrifilm	100	2.00	-0.73
HY1368	Petrifilm	2	0.30	-5.59
HY1411	Other	170	2.23	-0.07
HY1471	TBX PP 37-44	140	2.15	-0.32
HY1495	TBX PP 37-44	56	1.75	-1.45
HY1498	Other	330	2.52	0.75
HY1511	TBX PP 37-44	233	2.37	0.32
HY1515	TBX PP 37-44	200	2.30	0.13
HY1530	Other	220	2.34	0.25

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY1552	Other	300	2.48	0.63
HY1641	TBX PP 37-44	4100	3.61	3.88
HY1653	Other	369	2.57	0.89
HY1666	TBX PP 37-44	131	2.12	-0.40
HY1684	Petrifilm	286	2.46	0.57
HY1690	TBX PP 37-44	190	2.28	0.06
HY1699	TBX PP 37-44	290	2.46	0.59
HY1701	Petrifilm	320	2.51	0.71
HY1706	TBX PP 37-44	120	2.08	-0.51
HY1712	TBX PP 37-44	210	2.32	0.19
HY1766	TBX PP 37-44	140	2.15	-0.32
HY1788	TBX PP 37-44	175	2.24	-0.04
HY1844	TBX PP 37-44	160	2.20	-0.15
HY1880	Other	181	2.26	0.00
HY1950	Petrifilm	54	1.73	-1.50
HY1955	Other	405	2.61	1.00
HY1976	Other	1200	3.08	2.35
HY2124	Other	156	2.19	-0.18
HY2125	Other	260	2.41	0.45
HY2128	Other	336	2.53	0.77
HY2131	TBX PP 37-44	440	2.64	1.11
HY2150	Other	169	2.23	-0.08
HY2310	TBX PP 37-44	180	2.26	0.00
HY2312	TBX PP 37-44	116	2.06	-0.55
HY2333	TBX PP 37-44	260	2.41	0.45
HY2407	TBX PP 37-44	87	1.94	-0.91
HY2411	TBX PP 37-44	86	1.93	-0.92
HY2412	TBX PP 37-44	7	0.85	-4.03
HY2413	Other	297	2.47	0.62
HY2462	Other	140	2.15	-0.32
HY2464	Petrifilm	166	2.22	-0.10
HY2477	Petrifilm	<10		
HY2478	Other	394	2.60	0.97
HY2514	TBX PP 37-44	290	2.46	0.59
HY2550	Petrifilm	<10		
HY2617	Other	<1		
HY2675	Other	300	2.48	0.63
HY2679	TBX PP 37-44	65	1.81	-1.27
HY2682	Petrifilm	23	1.36	-2.56
HY2690	Petrifilm	10	1.00	-3.59
HY2690	Other	10	1.00	-3.59
HY2742	Other	2960	3.47	3.47
HY2748	TBX PP 37-44	827	2.92	1.89
HY2756	TBX PP 37-44	3450	3.54	3.66
HY2782	TBX PP 37-44	51	1.71	-1.57
HY2807	MPN	2100	3.32	3.04
HY2823	TBX PP 37-44	210	2.32	0.19
HY2834	TBX PP 37-44	740	2.87	1.75
HY2841	TBX PP 37-44	300	2.48	0.63
HY2842	TBX PP 37-44	<10		
HY2856	TBX PP 37-44	180	2.26	0.00

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Direct count)

Lab ID	Method	Result (cfu/200µl)	Log_{10}	z score
HY2857	Petrifilm	140	2.15	-0.32
HY2863	TBX PP 37-44	150	2.18	-0.23
HY2866	Petrifilm	19	1.28	-2.79
HY2894	Other	173	2.24	-0.05
HY2895	TBX PP 37-44	1300	3.11	2.45
HY2896	TBX PP 37-44	240	2.38	0.35
HY2904	TBX PP 37-44	130	2.11	-0.41
HY2907	Petrifilm	430	2.63	1.08
HY2912	TBX PP 37-44	1700	3.23	2.78
HY2913	TBX PP 37-44	350	2.54	0.82
HY2918	MPN	43	1.63	-1.78
HY2918	TBX PP 37-44	110	2.04	-0.61
HY2918	Other	23	1.36	-2.56
HY2929	Other	10	1.00	-3.59
HY2931	Other	40	1.60	-1.87

Quantitative Statistics

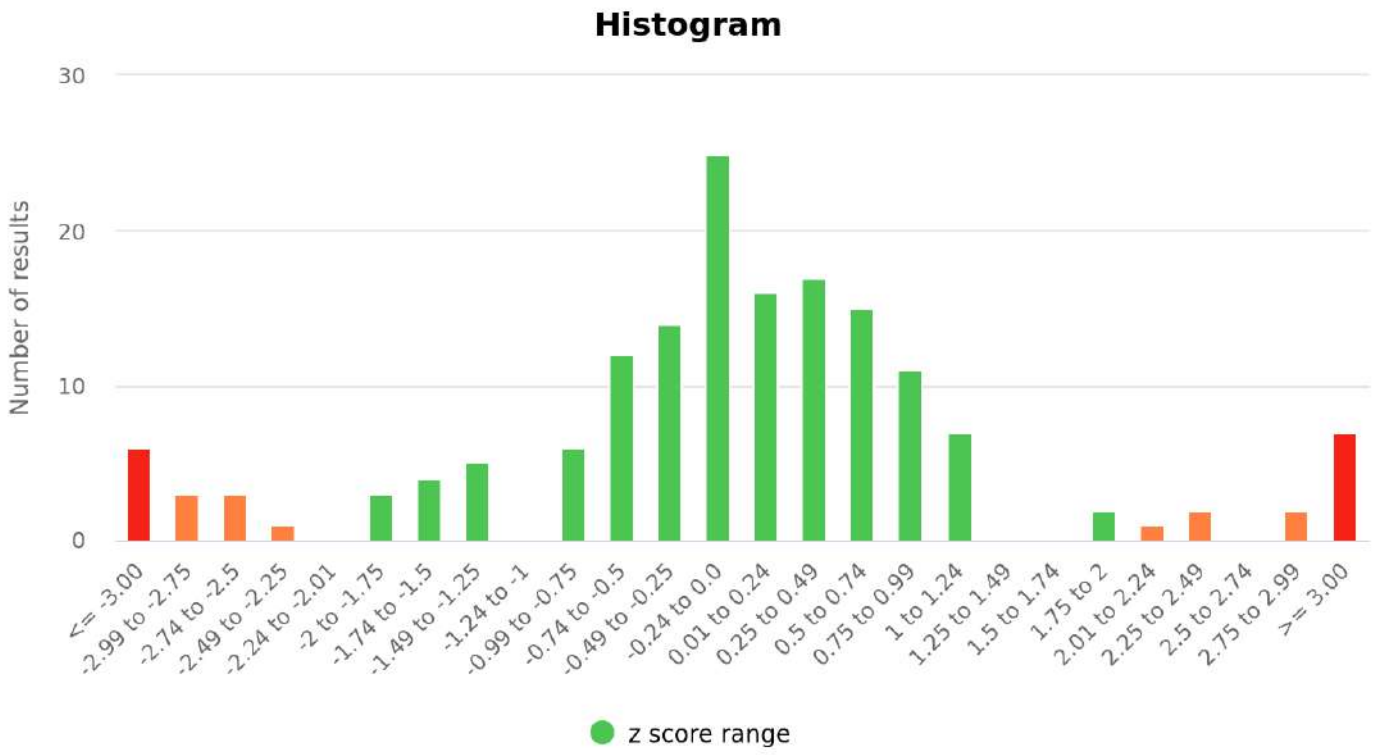
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.26	0.03	0.35	N/A	1.56 to 2.96	84.6%	7.4%	8.0%
	cfu/200µl	180	N/A	N/A	N/A	36 to 905	84.6%	7.4%	8.0%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	167	7	2.25	2.26	0.48	0.29	0.70 to 3.61
	cfu/200µl	167	7	N/A	N/A	N/A	N/A	5 to 4100

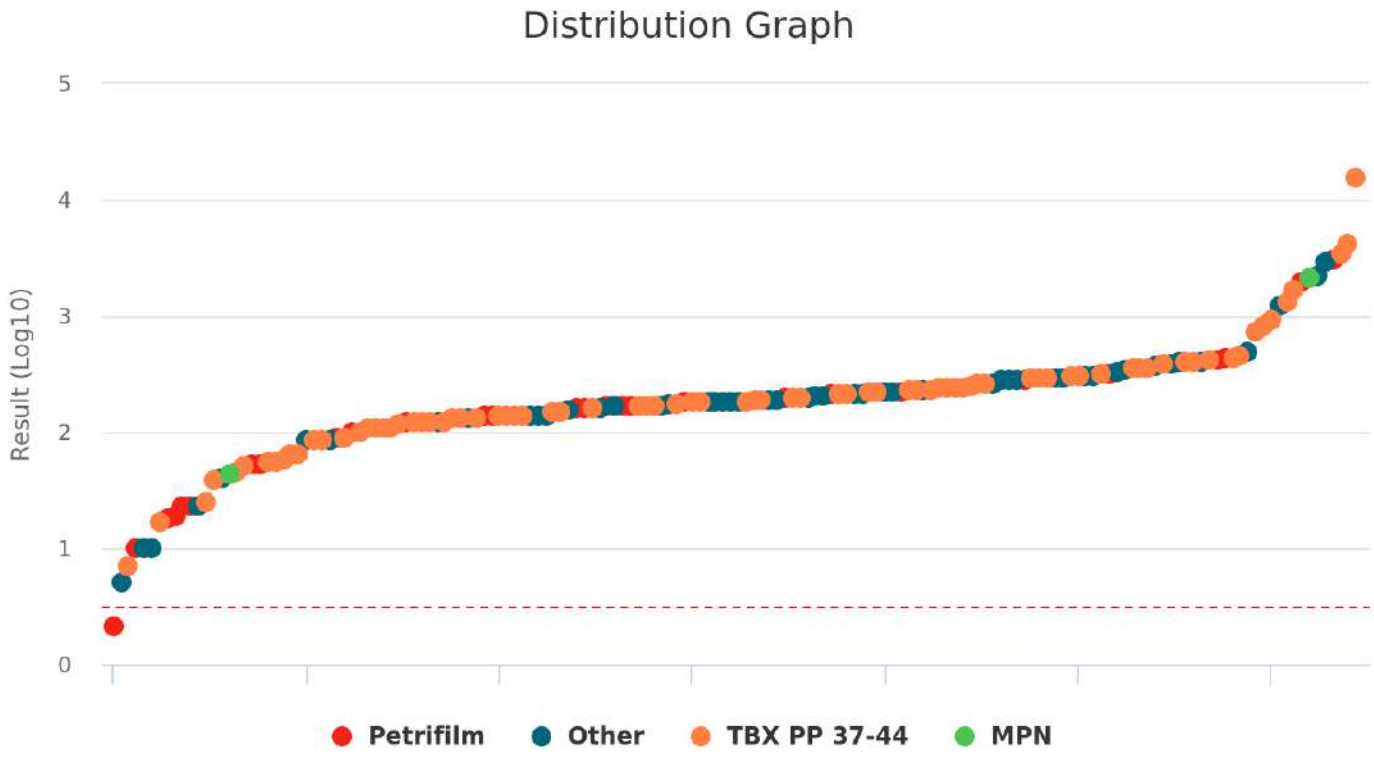
Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Direct count)

Histogram



Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	2	0	1	Log10	2.48	1.252	1.63 to 3.32	50.0	0.0	50.0
Other	52	2	31	Log10	2.31	0.235	0.70 to 3.47	86.0	4.0	10.0
Petrifilm	30	3	18	Log10	2.20	0.374	1.00 to 3.48	71.4	17.9	10.7
TBX PP 37-44	83	2	50	Log10	2.26	0.297	0.85 to 3.61	89.0	6.1	4.9

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	TBX PP 37-44	335	2.53	1.47
HY0007	Petrifilm	<10		
HY0029	TBX PP 37-44	<100.0		
HY0036	TBX PP 37-44	65	1.81	-0.18
HY0037	Other	95	1.98	0.20
HY0042	Other	10	1.00	-2.07
HY0045	TBX PP 37-44	<50		
HY0054	Other	5	0.70	-2.77
HY0058	Petrifilm	70	1.85	-0.11
HY0077	Other	200	2.30	0.95
HY0087	TBX PP 37-44	100	2.00	0.25
HY0106	Other	21	1.32	-1.32
HY0158	TBX PP 37-44	<10		
HY0184	TBX PP 37-44	110	2.04	0.35
HY0222	Other	110	2.04	0.35
HY0245	Other	10	1.00	-2.07
HY0253	TBX PP 37-44	65	1.81	-0.18
HY0256	MPN	60	1.78	-0.26
HY0256	TBX PP 37-44	70	1.85	-0.11
HY0297	Other	<10		
HY0320	TBX PP 37-44	5700	3.76	4.33
HY0324	TBX PP 37-44	300	2.48	1.36
HY0326	TBX PP 37-44	10	1.00	-2.07
HY0328	TBX PP 37-44	70	1.85	-0.11
HY0338	Petrifilm	200	2.30	0.95
HY0351	TBX PP 37-44	59	1.77	-0.28
HY0370	TBX PP 37-44	42	1.62	-0.63
HY0380	Other	137	2.14	0.57
HY0389	Petrifilm	110	2.04	0.35
HY0396	TBX PP 37-44	35	1.54	-0.81
HY0403	Petrifilm	160	2.20	0.73
HY0403	Other	100	2.00	0.25
HY0411	Other	70	1.85	-0.11
HY0446	Other	>200		
HY0467	TBX PP 37-44	40	1.60	-0.67
HY0476	TBX PP 37-44	100	2.00	0.25
HY0485	TBX PP 37-44	20	1.30	-1.37
HY0493	Petrifilm	36	1.56	-0.78
HY0526	TBX PP 37-44	60	1.78	-0.26
HY0543	Other	140	2.15	0.59
HY0544	Other	110	2.04	0.35
HY0572	Other	60	1.78	-0.26
HY0604	Other	1	0.00	-4.40
HY0605	Other	600	2.78	2.06
HY0629	TBX PP 37-44	70	1.85	-0.11
HY0655	TBX PP 37-44	80	1.90	0.03
HY0697	TBX PP 37-44	10	1.00	-2.07
HY0737	TBX PP 37-44	80	1.90	0.03
HY0740	TBX PP 37-44	80	1.90	0.03
HY0750	Other	50	1.70	-0.45

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0755	Petrifilm	20	1.30	-1.37
HY0758	Other	60	1.78	-0.26
HY0765	Petrifilm	130	2.11	0.52
HY0765	Other	200	2.30	0.95
HY0779	TBX PP 37-44	20	1.30	-1.37
HY0786	Petrifilm	8	0.90	-2.30
HY0786	Other	9	0.95	-2.18
HY0789	Petrifilm	200	2.30	0.95
HY0789	MPN	230	2.36	1.09
HY0789	TBX PP 37-44	200	2.30	0.95
HY0844	TBX PP 37-44	100	2.00	0.25
HY0852	Other	9	0.95	-2.18
HY0859	TBX PP 37-44	140	2.15	0.59
HY0893	Petrifilm	<1000.0		
HY0898	TBX PP 37-44	<100.0		
HY0916	Petrifilm	20	1.30	-1.37
HY0950	TBX PP 37-44	40	1.60	-0.67
HY0952	Petrifilm	<1000.0		
HY0977	Other	39	1.59	-0.70
HY1003	Petrifilm	270	2.43	1.25
HY1011	TBX PP 37-44	21	1.32	-1.32
HY1015	Petrifilm	4	0.60	-3.00
HY1042	Other	50	1.70	-0.45
HY1049	TBX PP 37-44	80	1.90	0.03
HY1061	TBX PP 37-44	<100.0		
HY1067	TBX PP 37-44	51	1.71	-0.43
HY1071	Other	700	2.85	2.22
HY1074	TBX PP 37-44	<10		
HY1076	TBX PP 37-44	20	1.30	-1.37
HY1087	Petrifilm	70	1.85	-0.11
HY1092	Other	<10		
HY1097	Other	190	2.28	0.90
HY1106	TBX PP 37-44	180	2.26	0.84
HY1121	Other	110	2.04	0.35
HY1125	Other	78	1.89	0.00
HY1148	Other	30	1.48	-0.96
HY1171	TBX PP 37-44	40	1.60	-0.67
HY1213	Other	150	2.18	0.66
HY1220	TBX PP 37-44	<10		
HY1232	Petrifilm	156	2.19	0.70
HY1233	Petrifilm	590	2.77	2.04
HY1243	Other	50	1.70	-0.45
HY1246	TBX PP 37-44	120	2.08	0.43
HY1249	Other	10	1.00	-2.07
HY1263	TBX PP 37-44	35	1.54	-0.81
HY1274	Other	<50		
HY1276	Other	50	1.70	-0.45
HY1285	TBX PP 37-44	10	1.00	-2.07
HY1288	TBX PP 37-44	100	2.00	0.25
HY1292	TBX PP 37-44	40	1.60	-0.67
HY1295	Other	12	1.08	-1.89

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1306	TBX PP 37-44	80	1.90	0.03
HY1311	Petrifilm	<1000.0		
HY1313	Other	130	2.11	0.52
HY1315	Other	220	2.34	1.05
HY1334	Petrifilm	40	1.60	-0.67
HY1368	Petrifilm	1	0.00	-4.40
HY1411	Other	<100.0		
HY1467	TBX PP 37-44	<40		
HY1471	TBX PP 37-44	100	2.00	0.25
HY1485	Petrifilm	120	2.08	0.43
HY1485	Other	140	2.15	0.59
HY1495	TBX PP 37-44	3	0.48	-3.29
HY1498	Other	110	2.04	0.35
HY1511	TBX PP 37-44	109	2.04	0.34
HY1530	Other	150	2.18	0.66
HY1552	Other	<10		
HY1641	TBX PP 37-44	820	2.91	2.38
HY1653	Other	15	1.18	-1.66
HY1666	TBX PP 37-44	600	2.78	2.06
HY1682	Petrifilm	50	1.70	-0.45
HY1684	Petrifilm	92	1.96	0.17
HY1690	TBX PP 37-44	120	2.08	0.43
HY1699	TBX PP 37-44	100	2.00	0.25
HY1701	Petrifilm	80	1.90	0.03
HY1712	Other	30	1.48	-0.96
HY1748	Other	<100.0		
HY1766	TBX PP 37-44	50	1.70	-0.45
HY1788	TBX PP 37-44	101	2.00	0.26
HY1844	TBX PP 37-44	35	1.54	-0.81
HY1880	Other	50	1.70	-0.45
HY1902	Petrifilm	2	0.30	-3.70
HY1950	Petrifilm	48	1.68	-0.49
HY1955	Other	140	2.15	0.59
HY1976	Other	160	2.20	0.73
HY2123	Other	8800	3.94	4.77
HY2124	Other	10	1.00	-2.07
HY2125	Other	70	1.85	-0.11
HY2128	Other	100	2.00	0.25
HY2131	TBX PP 37-44	64	1.81	-0.20
HY2150	Other	15	1.18	-1.66
HY2310	TBX PP 37-44	110	2.04	0.35
HY2312	TBX PP 37-44	36	1.56	-0.78
HY2320	TBX PP 37-44	100	2.00	0.25
HY2333	TBX PP 37-44	80	1.90	0.03
HY2360	Petrifilm	<10		
HY2364	TBX PP 37-44	120	2.08	0.43
HY2407	TBX PP 37-44	29	1.46	-1.00
HY2411	TBX PP 37-44	300	2.48	1.36
HY2412	TBX PP 37-44	<1		
HY2413	Other	100	2.00	0.25
HY2442	TBX PP 37-44	190	2.28	0.90

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Swab count)

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2464	Petrifilm	<10		
HY2477	Petrifilm	<10		
HY2478	Other	20	1.30	-1.37
HY2514	TBX PP 37-44	75	1.88	-0.04
HY2550	Petrifilm	<10		
HY2617	Other	<100.0		
HY2675	Other	4	0.60	-3.00
HY2679	TBX PP 37-44	10	1.00	-2.07
HY2682	Petrifilm	100	2.00	0.25
HY2682	TBX PP 37-44	100	2.00	0.25
HY2742	Other	<10		
HY2748	TBX PP 37-44	400	2.60	1.65
HY2756	TBX PP 37-44	10	1.00	-2.07
HY2782	TBX PP 37-44	19	1.28	-1.43
HY2785	Petrifilm	<1000.0		
HY2807	MPN	44000	4.64	6.40
HY2834	TBX PP 37-44	22000	4.34	5.70
HY2841	TBX PP 37-44	200	2.30	0.95
HY2842	Other	<10		
HY2856	TBX PP 37-44	170	2.23	0.79
HY2857	Petrifilm	70	1.85	-0.11
HY2863	TBX PP 37-44	70	1.85	-0.11
HY2866	Petrifilm	<10		
HY2873	Other	125	2.10	0.48
HY2894	Other	100	2.00	0.25
HY2895	TBX PP 37-44	1000	3.00	2.58
HY2896	TBX PP 37-44	60	1.78	-0.26
HY2899	TBX PP 37-44	1000	3.00	2.58
HY2901	Petrifilm	200	2.30	0.95
HY2904	TBX PP 37-44	100	2.00	0.25
HY2907	Petrifilm	<1000.0		
HY2908	MPN	110000	5.04	7.32
HY2912	TBX PP 37-44	<1000.0		
HY2913	TBX PP 37-44	120	2.08	0.43
HY2918	MPN	15	1.18	-1.66
HY2918	Other	7	0.85	-2.43
HY2923	Other	77	1.89	-0.01
HY2928	Petrifilm	30000	4.48	6.01
HY2929	Other	900	2.95	2.47
HY2931	Other	13	1.11	-1.81

Quantitative Statistics

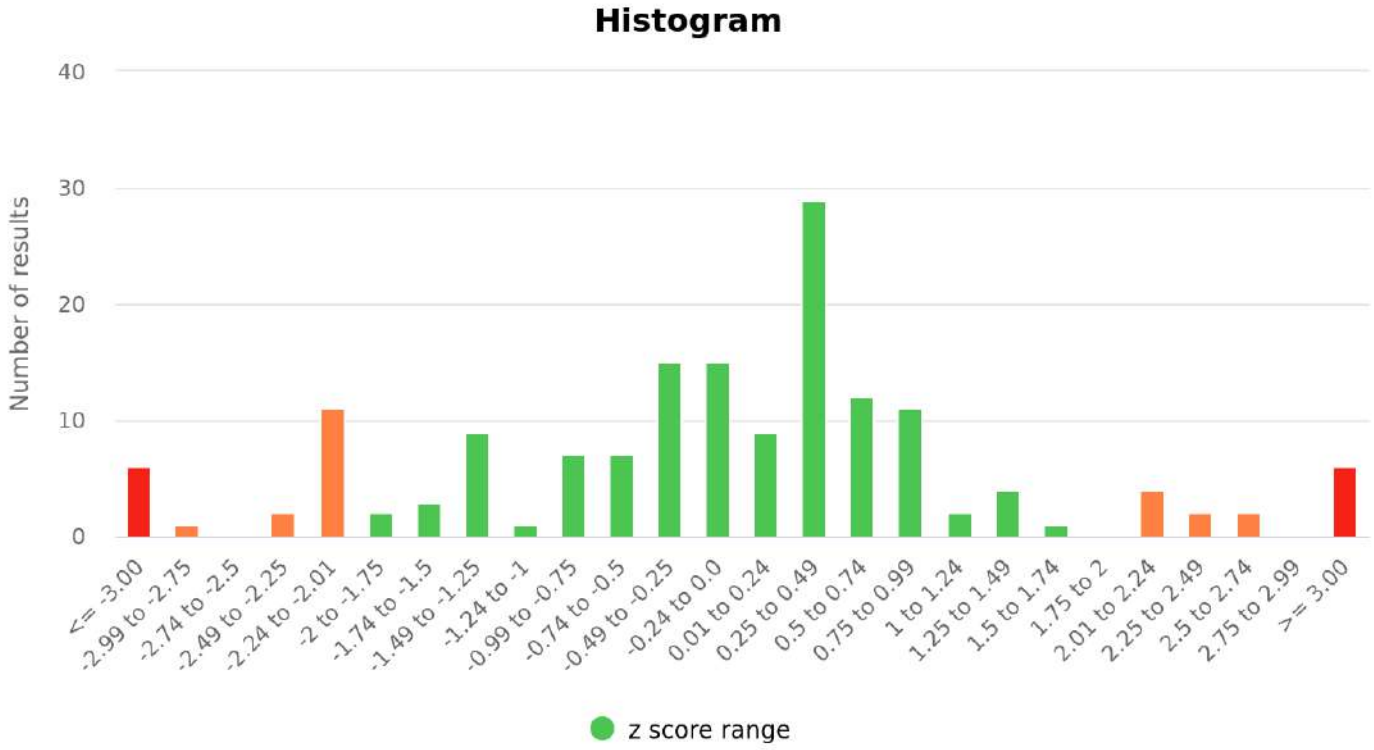
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.89	0.04	0.43	N/A	1.03 to 2.75	78.9%	13.7%	7.5%
	cfu/plate	78	N/A	N/A	N/A	11 to 565	78.9%	13.7%	7.5%

Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Swab count)

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	192	35	1.81	1.89	0.60	0.43	0.00 to 3.94
	cfu/plate	192	35	N/A	N/A	N/A	N/A	1 to 8800

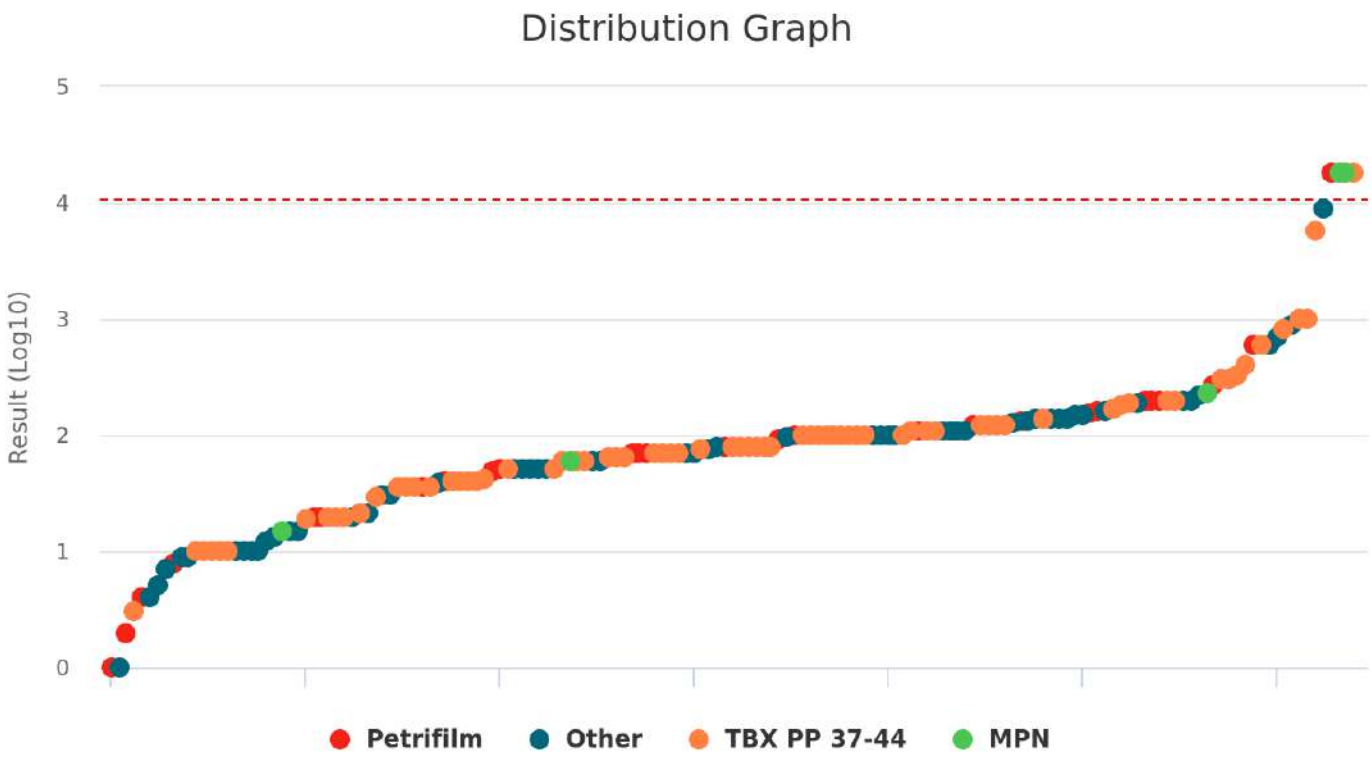
Histogram



Sample: 1 - Surface testing using swabbing techniques

Analyte: Escherichia coli (Swab count)

Sample 01



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	5	2	3	Log10	1.78	0.865	1.18 to 2.36	60.0	0.0	40.0
Other	66	10	34	Log10	1.87	0.460	0.00 to 3.94	75.0	19.6	5.4
Petrifilm	38	12	20	Log10	1.87	0.472	0.00 to 2.77	77.8	7.4	14.8
TBX PP 37-44	83	11	43	Log10	1.90	0.332	0.48 to 3.76	83.6	12.3	4.1

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Direct Detection)

Lab ID	Method	Result
HY0010	Enrichment/culture	Detected
HY0037	Other	Detected
HY0040	Enrichment/culture	Detected
HY0040	PCR	Detected
HY0045	Enrichment/culture	Detected
HY0054	Other	Detected
HY0077	Other	Detected
HY0093	PCR	Detected
HY0098	Enrichment/culture	Detected
HY0158	Enrichment/culture	Detected
HY0245	PCR	Detected
HY0253	Enrichment/culture	Detected
HY0262	Other	Detected
HY0283	Other	Detected
HY0335	Enrichment/culture	Detected
HY0351	Enrichment/culture	Detected
HY0370	Enrichment/culture	Detected
HY0385	Enrichment/culture	Detected
HY0389	Other	Detected
HY0396	Enrichment/culture	Detected
HY0411	Other	Detected
HY0467	Other	Detected
HY0470	PCR	Detected
HY0493	PCR	Detected
HY0499	Enrichment/culture	Detected
HY0502	Other	Detected
HY0515	PCR	Detected
HY0535	Enrichment/culture	Detected
HY0630	Enrichment/culture	Detected
HY0636	Enrichment/culture	Detected
HY0682	Enrichment/culture	Detected
HY0697	Enrichment/culture	Detected
HY0713	Other	Detected
HY0737	Enrichment/culture	Detected
HY0789	Enrichment/culture	Detected
HY0809	Enrichment/culture	Detected
HY0836	Enrichment/culture	Detected
HY0876	Enrichment/culture	Detected
HY0893	Enrichment/culture	Detected
HY0918	Enrichment/culture	Detected
HY0943	Other	Detected
HY0966	Other	Detected
HY0978	Other	Detected
HY0989	Other	Detected
HY1015	Other	Not Detected
HY1016	Other	Not Detected
HY1017	PCR	Detected
HY1018	PCR	Detected
HY1020	Enrichment/culture	Detected
HY1021	PCR	Not Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Direct Detection)

Lab ID	Method	Result
HY1022	PCR	Detected
HY1024	PCR	Not Detected
HY1033	Other	Detected
HY1049	Enrichment/culture	Detected
HY1066	Enrichment/culture	Detected
HY1067	Enrichment/culture	Detected
HY1071	Enrichment/culture	Detected
HY1092	Enrichment/culture	Detected
HY1105	PCR	Detected
HY1106	Enrichment/culture	Detected
HY1148	Enrichment/culture	Detected
HY1148	PCR	Detected
HY1148	Other	Detected
HY1213	Enrichment/culture	Detected
HY1213	Rapid L.mono	Detected
HY1221	Enrichment/culture	Detected
HY1221	Rapid L.mono	Detected
HY1242	PCR	Detected
HY1242	Other	Detected
HY1243	Other	Detected
HY1246	Enrichment/culture	Detected
HY1263	Enrichment/culture	Detected
HY1266	Enrichment/culture	Detected
HY1277	Enrichment/culture	Detected
HY1285	Other	Detected
HY1289	PCR	Detected
HY1290	Enrichment/culture	Detected
HY1292	PCR	Detected
HY1334	PCR	Detected
HY1334	Other	Detected
HY1368	Other	Detected
HY1380	PCR	Detected
HY1410	Other	Not Detected
HY1430	Other	Detected
HY1447	PCR	Detected
HY1461	Rapid L.mono	Detected
HY1471	PCR	Detected
HY1496	Enrichment/culture	Detected
HY1509	Other	Detected
HY1511	Enrichment/culture	Detected
HY1515	Enrichment/culture	Detected
HY1518	Other	Detected
HY1601	Other	Detected
HY1615	PCR	Detected
HY1653	Enrichment/culture	Detected
HY1673	Other	Detected
HY1677	PCR	Detected
HY1697	Other	Detected
HY1699	Enrichment/culture	Detected
HY1701	Enrichment/culture	Detected
HY1706	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Direct Detection)

Lab ID	Method	Result
HY1717	Enrichment/culture	Detected
HY1744	Other	Detected
HY1746	Other	Detected
HY1766	Enrichment/culture	Detected
HY1776	Enrichment/culture	Detected
HY1892	Enrichment/culture	Detected
HY1920	Other	Detected
HY1950	Enrichment/culture	Detected
HY1955	Enrichment/culture	Detected
HY1976	Enrichment/culture	Detected
HY2125	PCR	Detected
HY2128	Enrichment/culture	Detected
HY2305	Other	Detected
HY2310	Enrichment/culture	Detected
HY2312	Enrichment/culture	Detected
HY2333	Enrichment/culture	Detected
HY2386	Other	Detected
HY2426	Enrichment/culture	Detected
HY2433	Other	Not Detected
HY2462	Other	Detected
HY2514	Enrichment/culture	Detected
HY2554	PCR	Detected
HY2614	Enrichment/culture	Detected
HY2614	Rapid L.mono	Detected
HY2665	Enrichment/culture	Detected
HY2667	Rapid L.mono	Detected
HY2679	Enrichment/culture	Detected
HY2682	Enrichment/culture	Detected
HY2682	PCR	Detected
HY2807	Enrichment/culture	Detected
HY2844	Other	Detected
HY2855	Other	Detected
HY2872	Enrichment/culture	Detected
HY2895	Enrichment/culture	Detected
HY2896	Enrichment/culture	Not Detected
HY2896	Other	Detected
HY2900	Rapid L.mono	Detected
HY2906	PCR	Detected
HY2923	Enrichment/culture	Detected

Qualitative Assessment Statistics

Assessment Statistics	Result
Assigned Value	Detected
Number of Results	140
Satisfactory performance %	95.0%
Unsatisfactory performance %	5.0%

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Direct Detection)

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	68
	% Satisfactory	98.5
	% Unsatisfactory	1.5
Other	Count	40
	% Satisfactory	90.0
	% Unsatisfactory	10.0
PCR	Count	26
	% Satisfactory	92.3
	% Unsatisfactory	7.7
Rapid L.mono	Count	6
	% Satisfactory	100.0
	% Unsatisfactory	0.0

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Swab Detection)

Lab ID	Method	Result
HY0010	Enrichment/culture	Detected
HY0037	Other	Detected
HY0040	Enrichment/culture	Detected
HY0040	PCR	Detected
HY0042	Other	Not Detected
HY0045	Enrichment/culture	Not Detected
HY0054	Enrichment/culture	Detected
HY0077	Other	Detected
HY0093	PCR	Detected
HY0098	Enrichment/culture	Detected
HY0098	Rapid L.mono	Detected
HY0158	Enrichment/culture	Detected
HY0245	PCR	Detected
HY0247	Enrichment/culture	Detected
HY0253	Enrichment/culture	Detected
HY0262	Other	Detected
HY0267	PCR	Detected
HY0283	Enrichment/culture	Detected
HY0307	PCR	Detected
HY0326	Enrichment/culture	Detected
HY0335	Enrichment/culture	Detected
HY0351	Enrichment/culture	Detected
HY0370	Enrichment/culture	Detected
HY0385	Enrichment/culture	Detected
HY0389	Rapid L.mono	Detected
HY0396	Enrichment/culture	Detected
HY0411	Other	Detected
HY0417	Enrichment/culture	Detected
HY0467	Other	Detected
HY0470	PCR	Detected
HY0493	PCR	Detected
HY0496	Other	Detected
HY0499	Enrichment/culture	Detected
HY0502	Enrichment/culture	Detected
HY0508	Other	Detected
HY0515	PCR	Detected
HY0516	Enrichment/culture	Detected
HY0535	Enrichment/culture	Detected
HY0630	Enrichment/culture	Detected
HY0636	Enrichment/culture	Detected
HY0640	PCR	Not Detected
HY0682	Enrichment/culture	Detected
HY0697	Enrichment/culture	Detected
HY0713	Other	Detected
HY0737	Enrichment/culture	Detected
HY0739	Other	Not Detected
HY0789	Enrichment/culture	Detected
HY0809	Enrichment/culture	Detected
HY0836	Enrichment/culture	Detected
HY0876	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Swab Detection)

Lab ID	Method	Result
HY0893	Enrichment/culture	Detected
HY0898	Enrichment/culture	Detected
HY0905	Other	Detected
HY0916	Other	Detected
HY0918	Enrichment/culture	Detected
HY0943	Other	Detected
HY0966	Other	Detected
HY0978	Other	Detected
HY0979	Enrichment/culture	Detected
HY0989	Other	Detected
HY1014	Other	Detected
HY1015	Other	Not Detected
HY1016	Other	Detected
HY1017	PCR	Detected
HY1018	PCR	Detected
HY1019	PCR	Detected
HY1020	Enrichment/culture	Detected
HY1021	PCR	Not Detected
HY1022	PCR	Detected
HY1023	Enrichment/culture	Detected
HY1033	Other	Detected
HY1049	Enrichment/culture	Detected
HY1066	Other	Detected
HY1067	Enrichment/culture	Detected
HY1071	Enrichment/culture	Detected
HY1091	PCR	Not Detected
HY1092	Enrichment/culture	Detected
HY1097	Enrichment/culture	Detected
HY1105	PCR	Detected
HY1106	Enrichment/culture	Detected
HY1148	Enrichment/culture	Detected
HY1148	PCR	Detected
HY1148	Other	Detected
HY1196	Enrichment/culture	Detected
HY1213	Enrichment/culture	Detected
HY1213	Rapid L.mono	Detected
HY1221	Enrichment/culture	Detected
HY1221	Rapid L.mono	Detected
HY1243	Other	Detected
HY1246	Enrichment/culture	Detected
HY1263	Enrichment/culture	Detected
HY1266	Enrichment/culture	Detected
HY1275	Enrichment/culture	Detected
HY1277	Enrichment/culture	Detected
HY1285	Other	Detected
HY1286	PCR	Detected
HY1289	PCR	Detected
HY1290	Enrichment/culture	Detected
HY1292	PCR	Detected
HY1298	Rapid L.mono	Detected
HY1298	PCR	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Swab Detection)

Lab ID	Method	Result
HY1313	Enrichment/culture	Detected
HY1334	PCR	Detected
HY1334	Other	Detected
HY1368	Other	Detected
HY1380	PCR	Detected
HY1410	Other	Not Detected
HY1430	Other	Detected
HY1447	PCR	Detected
HY1461	Rapid L.mono	Detected
HY1467	Rapid L.mono	Detected
HY1471	PCR	Detected
HY1485	Enrichment/culture	Detected
HY1485	PCR	Detected
HY1496	Enrichment/culture	Detected
HY1509	Other	Detected
HY1511	Enrichment/culture	Detected
HY1515	Enrichment/culture	Detected
HY1518	Other	Detected
HY1560	PCR	Detected
HY1601	Other	Detected
HY1615	PCR	Not Detected
HY1653	Enrichment/culture	Detected
HY1673	Other	Detected
HY1677	PCR	Detected
HY1682	Other	Detected
HY1697	Other	Detected
HY1699	Enrichment/culture	Detected
HY1701	Enrichment/culture	Detected
HY1717	Enrichment/culture	Detected
HY1744	Other	Detected
HY1746	Other	Not Detected
HY1748	Other	Not Detected
HY1766	Enrichment/culture	Detected
HY1776	Enrichment/culture	Detected
HY1892	Other	Detected
HY1920	Other	Detected
HY1950	Enrichment/culture	Detected
HY1955	Enrichment/culture	Detected
HY1961	Enrichment/culture	Detected
HY1974	Enrichment/culture	Detected
HY1974	Rapid L.mono	Detected
HY1976	Enrichment/culture	Detected
HY1976	Enrichment/culture	Detected
HY1976	Enrichment/culture	Detected
HY2100	Other	Detected
HY2113	Enrichment/culture	Detected
HY2125	PCR	Detected
HY2128	Enrichment/culture	Detected
HY2310	Enrichment/culture	Detected
HY2312	Enrichment/culture	Detected
HY2333	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Swab Detection)

Lab ID	Method	Result
HY2360	Other	Detected
HY2364	Enrichment/culture	Detected
HY2386	Other	Detected
HY2426	Enrichment/culture	Detected
HY2433	Other	Not Detected
HY2449	Other	Detected
HY2514	Enrichment/culture	Detected
HY2554	PCR	Not Detected
HY2614	Enrichment/culture	Detected
HY2614	Rapid L.mono	Detected
HY2665	Enrichment/culture	Not Detected
HY2667	Rapid L.mono	Not Detected
HY2679	Enrichment/culture	Detected
HY2682	Enrichment/culture	Detected
HY2682	PCR	Detected
HY2690	PCR	Detected
HY2690	Other	Detected
HY2758	Rapid L.mono	Detected
HY2767	PCR	Detected
HY2807	Enrichment/culture	Detected
HY2844	Other	Not Detected
HY2855	Other	Detected
HY2866	Enrichment/culture	Detected
HY2872	Enrichment/culture	Detected
HY2873	Other	Detected
HY2884	Enrichment/culture	Detected
HY2893	Enrichment/culture	Detected
HY2895	Enrichment/culture	Detected
HY2896	Enrichment/culture	Detected
HY2900	Rapid L.mono	Detected
HY2906	Enrichment/culture	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	183
	Satisfactory performance %	91.3%
	Unsatisfactory performance %	8.7%

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	89
	% Satisfactory	97.8
	% Unsatisfactory	2.2
Other	Count	48
	% Satisfactory	83.3
	% Unsatisfactory	16.7
PCR	Count	34
	% Satisfactory	85.3

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria species (Swab Detection)

Qualitative Methodology Summary

Methodology Summary		Result
	% Unsatisfactory	14.7
Rapid L.mono	Count	12
	% Satisfactory	91.7
	% Unsatisfactory	8.3

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Direct Detection)

Lab ID	Method	Result
HY0007	Other	Detected
HY0010	Enrichment/culture	Detected
HY0037	Other	Detected
HY0040	Enrichment/culture	Detected
HY0040	PCR	Detected
HY0045	Enrichment/culture	Detected
HY0054	Other	Detected
HY0077	Other	Detected
HY0093	PCR	Detected
HY0098	Enrichment/culture	Detected
HY0106	Other	Detected
HY0158	Enrichment/culture	Detected
HY0245	PCR	Detected
HY0250	Other	Detected
HY0253	Enrichment/culture	Detected
HY0262	Other	Detected
HY0283	Enrichment/culture	Detected
HY0351	Enrichment/culture	Detected
HY0370	Enrichment/culture	Detected
HY0385	Rapid L.mono	Detected
HY0389	Rapid L.mono	Detected
HY0396	Enrichment/culture	Detected
HY0411	PCR	Detected
HY0467	Other	Detected
HY0470	PCR	Detected
HY0493	PCR	Detected
HY0515	Other	Detected
HY0535	Enrichment/culture	Detected
HY0542	Enrichment/culture	Detected
HY0544	Other	Detected
HY0630	Enrichment/culture	Detected
HY0636	Enrichment/culture	Detected
HY0682	Enrichment/culture	Detected
HY0697	Enrichment/culture	Detected
HY0697	PCR	Detected
HY0713	Other	Detected
HY0719	Enrichment/culture	Detected
HY0737	Enrichment/culture	Detected
HY0740	Enrichment/culture	Detected
HY0789	Enrichment/culture	Detected
HY0836	Enrichment/culture	Detected
HY0906	Enrichment/culture	Detected
HY0943	Other	Detected
HY0989	Other	Detected
HY1049	Enrichment/culture	Detected
HY1061	Rapid L.mono	Detected
HY1066	Other	Detected
HY1067	Enrichment/culture	Detected
HY1071	Enrichment/culture	Detected
HY1092	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Direct Detection)

Lab ID	Method	Result
HY1105	PCR	Detected
HY1106	Enrichment/culture	Detected
HY1148	Enrichment/culture	Detected
HY1148	PCR	Detected
HY1166	Rapid L.mono	Detected
HY1213	Enrichment/culture	Detected
HY1221	Enrichment/culture	Detected
HY1221	Rapid L.mono	Detected
HY1242	PCR	Detected
HY1242	Other	Detected
HY1246	Enrichment/culture	Detected
HY1263	Enrichment/culture	Detected
HY1263	Rapid L.mono	Detected
HY1263	PCR	Detected
HY1266	Enrichment/culture	Detected
HY1277	Enrichment/culture	Detected
HY1277	PCR	Detected
HY1289	PCR	Detected
HY1290	Enrichment/culture	Detected
HY1292	PCR	Detected
HY1334	PCR	Detected
HY1334	Other	Detected
HY1430	Other	Detected
HY1447	PCR	Detected
HY1461	Rapid L.mono	Detected
HY1471	PCR	Detected
HY1496	Enrichment/culture	Detected
HY1509	Other	Detected
HY1511	Enrichment/culture	Detected
HY1515	Enrichment/culture	Detected
HY1518	Other	Detected
HY1615	PCR	Detected
HY1653	Enrichment/culture	Detected
HY1673	Other	Detected
HY1677	PCR	Detected
HY1697	Other	Detected
HY1699	Enrichment/culture	Detected
HY1701	Enrichment/culture	Detected
HY1706	Enrichment/culture	Detected
HY1717	Enrichment/culture	Detected
HY1744	Other	Detected
HY1746	Other	Detected
HY1766	Enrichment/culture	Detected
HY1776	Enrichment/culture	Detected
HY1844	Enrichment/culture	Detected
HY1857	Rapid L.mono	Detected
HY1892	Enrichment/culture	Detected
HY1920	Other	Detected
HY1950	Enrichment/culture	Detected
HY1955	Enrichment/culture	Detected
HY1976	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Direct Detection)

Lab ID	Method	Result
HY2125	PCR	Detected
HY2128	Other	Detected
HY2305	Other	Detected
HY2310	Enrichment/culture	Detected
HY2312	Enrichment/culture	Detected
HY2333	Enrichment/culture	Detected
HY2426	Enrichment/culture	Detected
HY2433	Other	Not Detected
HY2462	Enrichment/culture	Detected
HY2485	Rapid L.mono	Detected
HY2514	Enrichment/culture	Detected
HY2554	PCR	Detected
HY2614	Enrichment/culture	Detected
HY2614	PCR	Detected
HY2614	Other	Detected
HY2665	Enrichment/culture	Detected
HY2667	Rapid L.mono	Detected
HY2679	Enrichment/culture	Detected
HY2682	Enrichment/culture	Detected
HY2682	PCR	Detected
HY2716	Rapid L.mono	Detected
HY2742	Other	Detected
HY2760	Enrichment/culture	Not Detected
HY2807	Enrichment/culture	Detected
HY2835	Enrichment/culture	Detected
HY2846	Rapid L.mono	Detected
HY2855	Other	Detected
HY2872	Enrichment/culture	Detected
HY2895	Enrichment/culture	Detected
HY2896	Enrichment/culture	Not Detected
HY2900	Rapid L.mono	Detected
HY2906	PCR	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	133
	Satisfactory performance %	97.7%
	Unsatisfactory performance %	2.3%

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	66
	% Satisfactory	97.0
	% Unsatisfactory	3.0
Other	Count	30
	% Satisfactory	96.7
	% Unsatisfactory	3.3
PCR	Count	24

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Direct Detection)

Qualitative Methodology Summary

Methodology Summary		Result
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Rapid L.mono	Count	13
	% Satisfactory	100.0
	% Unsatisfactory	0.0

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Swab Detection)

Lab ID	Method	Result
HY0007	Other	Detected
HY0010	Enrichment/culture	Detected
HY0037	Other	Detected
HY0040	Enrichment/culture	Detected
HY0040	PCR	Detected
HY0042	Other	Not Detected
HY0045	Enrichment/culture	Not Detected
HY0054	Enrichment/culture	Detected
HY0077	Other	Detected
HY0093	PCR	Detected
HY0098	Rapid L.mono	Detected
HY0098	PCR	Detected
HY0098	Other	Detected
HY0106	Other	Detected
HY0158	Enrichment/culture	Detected
HY0245	PCR	Detected
HY0247	Enrichment/culture	Detected
HY0250	Other	Detected
HY0253	Enrichment/culture	Detected
HY0262	Other	Detected
HY0267	PCR	Detected
HY0283	Enrichment/culture	Detected
HY0326	Enrichment/culture	Detected
HY0335	Enrichment/culture	Detected
HY0342	Enrichment/culture	Detected
HY0351	PCR	Detected
HY0370	Enrichment/culture	Detected
HY0385	Rapid L.mono	Detected
HY0389	Rapid L.mono	Detected
HY0396	Enrichment/culture	Detected
HY0411	PCR	Detected
HY0417	Enrichment/culture	Detected
HY0467	Other	Detected
HY0470	PCR	Detected
HY0493	PCR	Detected
HY0496	Other	Detected
HY0515	PCR	Detected
HY0515	Other	Detected
HY0516	Enrichment/culture	Detected
HY0516	Rapid L.mono	Detected
HY0516	PCR	Detected
HY0535	Enrichment/culture	Detected
HY0542	Enrichment/culture	Detected
HY0543	Enrichment/culture	Detected
HY0544	Enrichment/culture	Detected
HY0544	Other	Detected
HY0630	Enrichment/culture	Detected
HY0636	Enrichment/culture	Detected
HY0682	Enrichment/culture	Detected
HY0697	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Swab Detection)

Lab ID	Method	Result
HY0697	PCR	Detected
HY0713	Other	Detected
HY0719	Enrichment/culture	Detected
HY0737	Enrichment/culture	Detected
HY0740	Enrichment/culture	Detected
HY0789	Enrichment/culture	Detected
HY0836	Enrichment/culture	Detected
HY0898	Enrichment/culture	Detected
HY0906	Enrichment/culture	Detected
HY0943	Other	Detected
HY0984	Enrichment/culture	Detected
HY0989	Other	Detected
HY1049	Enrichment/culture	Detected
HY1061	Rapid L.mono	Detected
HY1066	Other	Detected
HY1067	Enrichment/culture	Detected
HY1071	Enrichment/culture	Detected
HY1092	Enrichment/culture	Detected
HY1097	Enrichment/culture	Detected
HY1105	PCR	Detected
HY1106	Enrichment/culture	Detected
HY1148	Enrichment/culture	Detected
HY1148	PCR	Detected
HY1166	Rapid L.mono	Detected
HY1196	Enrichment/culture	Detected
HY1213	Enrichment/culture	Detected
HY1213	Rapid L.mono	Detected
HY1221	Enrichment/culture	Detected
HY1221	Rapid L.mono	Detected
HY1246	Enrichment/culture	Detected
HY1263	Enrichment/culture	Detected
HY1263	Rapid L.mono	Detected
HY1263	PCR	Detected
HY1266	Enrichment/culture	Detected
HY1275	Enrichment/culture	Detected
HY1277	Enrichment/culture	Detected
HY1277	PCR	Detected
HY1286	PCR	Detected
HY1289	PCR	Detected
HY1290	Enrichment/culture	Detected
HY1292	PCR	Detected
HY1298	Rapid L.mono	Detected
HY1298	PCR	Detected
HY1313	Enrichment/culture	Detected
HY1334	PCR	Detected
HY1334	Other	Detected
HY1349	Enrichment/culture	Detected
HY1430	Enrichment/culture	Detected
HY1447	PCR	Detected
HY1461	Rapid L.mono	Detected
HY1467	Rapid L.mono	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Swab Detection)

Lab ID	Method	Result
HY1471	PCR	Detected
HY1485	Enrichment/culture	Detected
HY1485	PCR	Detected
HY1496	Enrichment/culture	Detected
HY1505	Enrichment/culture	Detected
HY1509	Other	Detected
HY1511	Enrichment/culture	Detected
HY1515	Enrichment/culture	Detected
HY1518	Other	Detected
HY1560	PCR	Detected
HY1566	Enrichment/culture	Detected
HY1615	PCR	Not Detected
HY1653	Enrichment/culture	Detected
HY1673	Other	Detected
HY1674	Other	Detected
HY1677	PCR	Detected
HY1697	Other	Detected
HY1699	Enrichment/culture	Detected
HY1701	Enrichment/culture	Detected
HY1717	Enrichment/culture	Detected
HY1744	Other	Detected
HY1746	Other	Not Detected
HY1748	Other	Not Detected
HY1766	Enrichment/culture	Detected
HY1776	Enrichment/culture	Detected
HY1789	Enrichment/culture	Detected
HY1844	Enrichment/culture	Detected
HY1857	Rapid L.mono	Detected
HY1892	Other	Detected
HY1920	Other	Detected
HY1950	Enrichment/culture	Detected
HY1955	Enrichment/culture	Detected
HY1961	Enrichment/culture	Detected
HY1974	Enrichment/culture	Detected
HY1974	Rapid L.mono	Detected
HY1976	Enrichment/culture	Detected
HY2100	Other	Detected
HY2125	PCR	Detected
HY2128	Other	Detected
HY2134	Other	Detected
HY2305	Other	Detected
HY2310	Enrichment/culture	Detected
HY2312	Enrichment/culture	Detected
HY2333	Enrichment/culture	Detected
HY2360	Other	Detected
HY2364	Enrichment/culture	Detected
HY2391	PCR	Detected
HY2426	Enrichment/culture	Detected
HY2433	Other	Not Detected
HY2449	Other	Detected
HY2485	Rapid L.mono	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Swab Detection)

Lab ID	Method	Result
HY2514	Enrichment/culture	Detected
HY2554	PCR	Not Detected
HY2614	Rapid L.mono	Detected
HY2614	PCR	Detected
HY2614	Other	Detected
HY2665	Enrichment/culture	Not Detected
HY2667	Rapid L.mono	Not Detected
HY2679	Enrichment/culture	Detected
HY2682	Enrichment/culture	Detected
HY2682	PCR	Detected
HY2690	PCR	Detected
HY2690	Other	Detected
HY2716	PCR	Detected
HY2742	Other	Not Detected
HY2756	Rapid L.mono	Detected
HY2760	Enrichment/culture	Not Detected
HY2807	Enrichment/culture	Detected
HY2835	Enrichment/culture	Detected
HY2842	Other	Detected
HY2846	Rapid L.mono	Detected
HY2855	Other	Detected
HY2872	Enrichment/culture	Detected
HY2884	Enrichment/culture	Detected
HY2895	Enrichment/culture	Detected
HY2896	Enrichment/culture	Not Detected
HY2896	Other	Detected
HY2900	Rapid L.mono	Detected
HY2906	Enrichment/culture	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	180
	Satisfactory performance %	93.3%
	Unsatisfactory performance %	6.7%

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	86
	% Satisfactory	95.3
	% Unsatisfactory	4.7
Other	Count	40
	% Satisfactory	87.5
	% Unsatisfactory	12.5
PCR	Count	34
	% Satisfactory	94.1
	% Unsatisfactory	5.9
Rapid L.mono	Count	20
	% Satisfactory	95.0

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Listeria monocytogenes (Swab Detection)

Qualitative Methodology Summary

Methodology Summary		Result
	% Unsatisfactory	5.0

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Direct Detection)

Lab ID	Method	Result
HY0010	Enrichment/culture	Detected
HY0037	Other	Detected
HY0040	Enrichment/culture	Detected
HY0040	PCR	Detected
HY0045	Enrichment/culture	Not Detected
HY0048	PCR	Detected
HY0054	Other	Detected
HY0062	Enrichment/culture	Detected
HY0077	Other	Detected
HY0093	PCR	Detected
HY0098	Enrichment/culture	Detected
HY0106	Enrichment/culture	Detected
HY0158	Enrichment/culture	Detected
HY0245	PCR	Detected
HY0253	Enrichment/culture	Detected
HY0262	Other	Detected
HY0335	Enrichment/culture	Detected
HY0351	Enrichment/culture	Detected
HY0370	Enrichment/culture	Detected
HY0385	Enrichment/culture	Detected
HY0387	PCR	Detected
HY0389	Other	Detected
HY0396	Enrichment/culture	Detected
HY0396	PCR	Detected
HY0411	PCR	Detected
HY0467	ELISA	Detected
HY0470	PCR	Detected
HY0493	PCR	Detected
HY0515	PCR	Detected
HY0535	Enrichment/culture	Detected
HY0542	Enrichment/culture	Detected
HY0544	VIDAS	Detected
HY0630	Enrichment/culture	Detected
HY0636	Enrichment/culture	Detected
HY0682	Enrichment/culture	Detected
HY0697	Enrichment/culture	Detected
HY0697	PCR	Detected
HY0713	VIDAS	Detected
HY0713	Other	Detected
HY0719	Enrichment/culture	Detected
HY0737	Enrichment/culture	Detected
HY0737	PCR	Detected
HY0740	Enrichment/culture	Detected
HY0789	Enrichment/culture	Detected
HY0809	Enrichment/culture	Detected
HY0836	Enrichment/culture	Detected
HY0876	Enrichment/culture	Detected
HY0893	Enrichment/culture	Detected
HY0906	Enrichment/culture	Detected
HY0918	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Direct Detection)

Lab ID	Method	Result
HY0943	Other	Detected
HY0966	Other	Detected
HY0978	Other	Detected
HY0989	VIDAS	Detected
HY1015	Other	Detected
HY1016	Other	Not Detected
HY1017	PCR	Detected
HY1018	PCR	Detected
HY1020	Enrichment/culture	Detected
HY1021	PCR	Not Detected
HY1022	PCR	Detected
HY1024	PCR	Detected
HY1033	VIDAS	Detected
HY1037	Other	Detected
HY1049	Enrichment/culture	Detected
HY1061	Enrichment/culture	Detected
HY1066	Enrichment/culture	Detected
HY1067	Enrichment/culture	Detected
HY1071	Enrichment/culture	Detected
HY1092	Enrichment/culture	Detected
HY1105	PCR	Detected
HY1106	Enrichment/culture	Detected
HY1148	Enrichment/culture	Detected
HY1148	VIDAS	Detected
HY1148	PCR	Detected
HY1213	Enrichment/culture	Detected
HY1213	Other	Detected
HY1221	Enrichment/culture	Detected
HY1225	Enrichment/culture	Detected
HY1242	VIDAS	Detected
HY1243	Other	Detected
HY1246	Enrichment/culture	Detected
HY1263	Enrichment/culture	Detected
HY1263	PCR	Detected
HY1263	Other	Detected
HY1266	Enrichment/culture	Detected
HY1274	Enrichment/culture	Detected
HY1274	PCR	Detected
HY1277	Enrichment/culture	Detected
HY1277	PCR	Detected
HY1288	PCR	Detected
HY1289	PCR	Detected
HY1290	Enrichment/culture	Detected
HY1292	PCR	Detected
HY1334	VIDAS	Detected
HY1334	PCR	Detected
HY1380	PCR	Detected
HY1430	Other	Detected
HY1447	PCR	Detected
HY1461	Enrichment/culture	Detected
HY1471	PCR	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Direct Detection)

Lab ID	Method	Result
HY1496	VIDAS	Detected
HY1511	Enrichment/culture	Detected
HY1515	Enrichment/culture	Detected
HY1518	Other	Detected
HY1601	VIDAS	Detected
HY1615	PCR	Detected
HY1653	Enrichment/culture	Detected
HY1673	VIDAS	Detected
HY1677	PCR	Detected
HY1681	PCR	Detected
HY1697	ELISA	Detected
HY1699	Enrichment/culture	Detected
HY1701	Enrichment/culture	Detected
HY1706	Enrichment/culture	Detected
HY1717	Enrichment/culture	Detected
HY1744	Other	Detected
HY1746	Other	Detected
HY1766	Enrichment/culture	Detected
HY1776	Enrichment/culture	Detected
HY1844	Enrichment/culture	Detected
HY1880	Enrichment/culture	Detected
HY1892	Enrichment/culture	Detected
HY1950	Enrichment/culture	Detected
HY1955	Enrichment/culture	Detected
HY2113	VIDAS	Not Detected
HY2124	Other	Detected
HY2125	PCR	Detected
HY2128	Other	Detected
HY2305	Other	Detected
HY2310	Enrichment/culture	Detected
HY2312	Enrichment/culture	Detected
HY2327	Enrichment/culture	Detected
HY2333	Enrichment/culture	Detected
HY2386	Other	Detected
HY2402	Enrichment/culture	Detected
HY2405	Enrichment/culture	Detected
HY2405	PCR	Detected
HY2410	Enrichment/culture	Detected
HY2411	Enrichment/culture	Detected
HY2426	Enrichment/culture	Detected
HY2433	Other	Not Detected
HY2452	PCR	Detected
HY2462	Other	Detected
HY2477	Enrichment/culture	Detected
HY2485	PCR	Detected
HY2514	Enrichment/culture	Detected
HY2554	PCR	Detected
HY2614	Enrichment/culture	Detected
HY2614	PCR	Detected
HY2614	Other	Detected
HY2658	Other	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Direct Detection)

Lab ID	Method	Result
HY2665	Enrichment/culture	Detected
HY2667	Enrichment/culture	Detected
HY2679	Enrichment/culture	Detected
HY2682	Enrichment/culture	Detected
HY2682	PCR	Detected
HY2716	PCR	Detected
HY2716	ELISA	Detected
HY2742	Other	Detected
HY2760	Enrichment/culture	Detected
HY2807	Enrichment/culture	Detected
HY2835	Enrichment/culture	Detected
HY2841	Other	Detected
HY2844	VIDAS	Detected
HY2855	Other	Detected
HY2872	Enrichment/culture	Detected
HY2895	Enrichment/culture	Detected
HY2896	Enrichment/culture	Detected
HY2900	Other	Detected
HY2906	PCR	Detected
HY2923	Enrichment/culture	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	172
	Satisfactory performance %	97.1%
	Unsatisfactory performance %	2.9%

Qualitative Methodology Summary

Methodology Summary		Result
ELISA	Count	3
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Enrichment/culture	Count	85
	% Satisfactory	98.8
	% Unsatisfactory	1.2
Other	Count	31
	% Satisfactory	93.5
	% Unsatisfactory	6.5
PCR	Count	41
	% Satisfactory	97.6
	% Unsatisfactory	2.4
VIDAS	Count	12
	% Satisfactory	91.7
	% Unsatisfactory	8.3

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Swab Detection)

Lab ID	Method	Result
HY0010	Enrichment/culture	Detected
HY0037	Other	Detected
HY0040	Enrichment/culture	Detected
HY0040	PCR	Detected
HY0042	Other	Not Detected
HY0045	Other	Not Detected
HY0048	PCR	Detected
HY0054	Enrichment/culture	Detected
HY0062	Enrichment/culture	Detected
HY0077	Enrichment/culture	Detected
HY0093	PCR	Detected
HY0098	Enrichment/culture	Detected
HY0098	PCR	Detected
HY0098	Other	Detected
HY0106	Enrichment/culture	Detected
HY0158	Enrichment/culture	Detected
HY0245	PCR	Detected
HY0247	Enrichment/culture	Detected
HY0253	Enrichment/culture	Detected
HY0262	Other	Detected
HY0267	PCR	Detected
HY0307	PCR	Detected
HY0326	Other	Detected
HY0335	Enrichment/culture	Detected
HY0342	Enrichment/culture	Detected
HY0351	Enrichment/culture	Detected
HY0370	Enrichment/culture	Detected
HY0385	Enrichment/culture	Detected
HY0387	PCR	Detected
HY0389	Enrichment/culture	Detected
HY0396	Enrichment/culture	Detected
HY0396	PCR	Detected
HY0411	PCR	Detected
HY0417	Enrichment/culture	Detected
HY0467	ELISA	Detected
HY0470	PCR	Detected
HY0493	PCR	Detected
HY0496	Enrichment/culture	Detected
HY0515	PCR	Detected
HY0516	Enrichment/culture	Detected
HY0516	PCR	Detected
HY0516	Other	Detected
HY0535	Enrichment/culture	Detected
HY0542	Enrichment/culture	Detected
HY0543	Enrichment/culture	Detected
HY0544	Enrichment/culture	Detected
HY0544	VIDAS	Detected
HY0630	Enrichment/culture	Detected
HY0636	Enrichment/culture	Detected
HY0640	PCR	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Swab Detection)

Lab ID	Method	Result
HY0682	Enrichment/culture	Detected
HY0697	Enrichment/culture	Detected
HY0697	PCR	Detected
HY0713	VIDAS	Detected
HY0713	Other	Detected
HY0719	Enrichment/culture	Detected
HY0737	Enrichment/culture	Detected
HY0737	PCR	Detected
HY0740	Enrichment/culture	Detected
HY0789	Enrichment/culture	Detected
HY0809	Enrichment/culture	Detected
HY0836	Enrichment/culture	Detected
HY0876	Enrichment/culture	Detected
HY0893	Enrichment/culture	Detected
HY0898	Enrichment/culture	Detected
HY0906	Enrichment/culture	Detected
HY0916	Other	Detected
HY0918	Enrichment/culture	Detected
HY0943	Other	Detected
HY0952	Enrichment/culture	Detected
HY0966	Other	Detected
HY0978	Other	Detected
HY0984	Enrichment/culture	Detected
HY0989	VIDAS	Detected
HY1014	VIDAS	Detected
HY1015	Other	Not Detected
HY1016	Other	Detected
HY1017	PCR	Detected
HY1018	PCR	Detected
HY1019	PCR	Detected
HY1020	Enrichment/culture	Detected
HY1021	PCR	Detected
HY1022	PCR	Detected
HY1023	Other	Detected
HY1033	VIDAS	Detected
HY1037	Other	Detected
HY1049	Enrichment/culture	Detected
HY1061	Enrichment/culture	Not Detected
HY1066	Enrichment/culture	Detected
HY1067	Enrichment/culture	Detected
HY1071	Enrichment/culture	Detected
HY1091	PCR	Detected
HY1092	Enrichment/culture	Detected
HY1097	Enrichment/culture	Detected
HY1105	PCR	Detected
HY1106	Enrichment/culture	Detected
HY1148	Enrichment/culture	Detected
HY1148	VIDAS	Detected
HY1148	PCR	Detected
HY1196	Enrichment/culture	Detected
HY1213	Enrichment/culture	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Swab Detection)

Lab ID	Method	Result
HY1213	Other	Detected
HY1221	Enrichment/culture	Detected
HY1225	Enrichment/culture	Detected
HY1243	Other	Detected
HY1246	Enrichment/culture	Detected
HY1263	Enrichment/culture	Detected
HY1263	PCR	Detected
HY1263	Other	Detected
HY1266	Enrichment/culture	Detected
HY1274	Enrichment/culture	Detected
HY1274	PCR	Detected
HY1275	Enrichment/culture	Detected
HY1277	Enrichment/culture	Detected
HY1277	PCR	Detected
HY1286	PCR	Detected
HY1288	PCR	Detected
HY1289	PCR	Detected
HY1290	Enrichment/culture	Detected
HY1292	PCR	Detected
HY1298	Enrichment/culture	Detected
HY1313	Enrichment/culture	Detected
HY1334	VIDAS	Detected
HY1334	PCR	Detected
HY1363	Other	Detected
HY1380	PCR	Detected
HY1430	VIDAS	Detected
HY1447	PCR	Detected
HY1461	Enrichment/culture	Detected
HY1467	Other	Detected
HY1471	PCR	Detected
HY1494	VIDAS	Detected
HY1496	VIDAS	Detected
HY1505	Enrichment/culture	Detected
HY1511	Enrichment/culture	Detected
HY1515	Enrichment/culture	Detected
HY1518	Other	Detected
HY1560	PCR	Detected
HY1566	Enrichment/culture	Detected
HY1601	VIDAS	Detected
HY1615	PCR	Not Detected
HY1653	Enrichment/culture	Detected
HY1673	VIDAS	Detected
HY1674	VIDAS	Detected
HY1677	PCR	Detected
HY1681	PCR	Detected
HY1682	Other	Detected
HY1697	ELISA	Detected
HY1699	Enrichment/culture	Detected
HY1701	Enrichment/culture	Detected
HY1717	Enrichment/culture	Detected
HY1744	Other	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Swab Detection)

Lab ID	Method	Result
HY1746	Other	Detected
HY1748	Other	Detected
HY1766	Enrichment/culture	Detected
HY1776	Enrichment/culture	Detected
HY1789	Enrichment/culture	Detected
HY1844	Enrichment/culture	Detected
HY1880	PCR	Detected
HY1892	Other	Detected
HY1950	Enrichment/culture	Detected
HY1955	Enrichment/culture	Detected
HY1961	Enrichment/culture	Detected
HY1974	Enrichment/culture	Detected
HY1974	VIDAS	Detected
HY2100	Enrichment/culture	Detected
HY2123	PCR	Detected
HY2124	Other	Detected
HY2125	PCR	Detected
HY2128	Other	Detected
HY2134	Enrichment/culture	Detected
HY2305	Other	Detected
HY2310	Enrichment/culture	Detected
HY2312	Enrichment/culture	Detected
HY2327	Enrichment/culture	Detected
HY2333	Enrichment/culture	Detected
HY2364	Enrichment/culture	Detected
HY2386	Other	Detected
HY2391	PCR	Detected
HY2402	Enrichment/culture	Detected
HY2405	Enrichment/culture	Detected
HY2405	PCR	Detected
HY2410	Enrichment/culture	Detected
HY2411	Enrichment/culture	Detected
HY2426	Enrichment/culture	Detected
HY2433	Other	Not Detected
HY2449	Other	Detected
HY2452	PCR	Not Detected
HY2477	Enrichment/culture	Detected
HY2485	PCR	Detected
HY2514	Enrichment/culture	Detected
HY2554	PCR	Detected
HY2614	Enrichment/culture	Detected
HY2614	PCR	Detected
HY2614	Other	Detected
HY2658	Other	Detected
HY2665	Enrichment/culture	Not Detected
HY2667	Enrichment/culture	Detected
HY2679	Enrichment/culture	Detected
HY2682	Enrichment/culture	Detected
HY2682	PCR	Detected
HY2690	PCR	Detected
HY2690	Other	Detected

Sample: 2 - Surface testing using swabbing techniques (Pathogens)

Analyte: Salmonella species (Swab Detection)

Lab ID	Method	Result
HY2716	PCR	Detected
HY2716	ELISA	Detected
HY2742	Other	Not Detected
HY2756	Other	Detected
HY2760	Enrichment/culture	Detected
HY2767	PCR	Detected
HY2807	Enrichment/culture	Detected
HY2835	Enrichment/culture	Detected
HY2841	Other	Detected
HY2842	Other	Detected
HY2844	VIDAS	Not Detected
HY2855	Other	Detected
HY2866	Enrichment/culture	Detected
HY2872	Enrichment/culture	Detected
HY2873	VIDAS	Detected
HY2884	Enrichment/culture	Detected
HY2895	Enrichment/culture	Detected
HY2896	Enrichment/culture	Detected
HY2900	VIDAS	Detected
HY2906	Enrichment/culture	Detected
HY2923	Enrichment/culture	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	224
	Satisfactory performance %	95.5%
	Unsatisfactory performance %	4.5%

Qualitative Methodology Summary

Methodology Summary		Result
ELISA	Count	3
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Enrichment/culture	Count	110
	% Satisfactory	98.2
	% Unsatisfactory	1.8
Other	Count	41
	% Satisfactory	87.8
	% Unsatisfactory	12.2
PCR	Count	53
	% Satisfactory	96.2
	% Unsatisfactory	3.8
VIDAS	Count	17
	% Satisfactory	94.1
	% Unsatisfactory	5.9

Sample: 3 - Surface testing using contact plates

Analyte: Total aerobic mesophilic count

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0027	55mm Contact plate	1	0.00	-2.98
HY0038	55mm Contact plate	12	1.08	0.11
HY0050	55mm Contact plate	6	0.78	-0.75
HY0111	55mm Contact plate	8	0.90	-0.40
HY0146	55mm Contact plate	3	0.48	-1.61
HY0162	55mm Contact plate	7	0.85	-0.56
HY0173	55mm Contact plate	17	1.24	0.56
HY0183	55mm Contact plate	6	0.76	-0.80
HY0191	55mm Contact plate	20	1.30	0.74
HY0204	55mm Contact plate	12	1.08	0.11
HY0209	55mm Contact plate	16	1.20	0.46
HY0222	55mm Contact plate	<1		
HY0251	55mm Contact plate	6	0.78	-0.75
HY0263	55mm Contact plate	3	0.48	-1.61
HY0266	Other	10	1.00	-0.12
HY0304	55mm Contact plate	18	1.26	0.61
HY0380	55mm Contact plate	22	1.34	0.86
HY0417	55mm Contact plate	17	1.23	0.54
HY0429	55mm Contact plate	10	1.00	-0.12
HY0437	Other	2	0.30	-2.12
HY0446	55mm Contact plate	10	1.00	-0.12
HY0449	55mm Contact plate	5	0.70	-0.98
HY0457	55mm Contact plate	4	0.60	-1.26
HY0482	55mm Contact plate	10	1.00	-0.12
HY0532	55mm Contact plate	19	1.28	0.68
HY0570	55mm Contact plate	6	0.78	-0.75
HY0572	55mm Contact plate	8	0.90	-0.40
HY0604	55mm Contact plate	4	0.60	-1.26
HY0626	55mm Contact plate	42	1.62	1.66
HY0631	55mm Contact plate	9	0.95	-0.25
HY0632	Other	10	1.00	-0.12
HY0636	55mm Contact plate	3	0.48	-1.61
HY0662	55mm Contact plate	11	1.04	0.00
HY0695	55mm Contact plate	26	1.41	1.04
HY0697	55mm Contact plate	30	1.48	1.24
HY0746	55mm Contact plate	6	0.78	-0.75
HY0749	Other	5	0.70	-0.98
HY0757	55mm Contact plate	10	1.00	-0.12
HY0758	55mm Contact plate	5	0.70	-0.98
HY0779	55mm Contact plate	17	1.23	0.54
HY0803	Other	16	1.20	0.46
HY0809	55mm Contact plate	13	1.11	0.21
HY0809	Other	28	1.45	1.16
HY0818	55mm Contact plate	31	1.49	1.29
HY0828	55mm Contact plate	14	1.15	0.30
HY0845	55mm Contact plate	12	1.08	0.11
HY0852	55mm Contact plate	11	1.04	0.00
HY0962	55mm Contact plate	14	1.15	0.30
HY0973	55mm Contact plate	11	1.04	0.00
HY1010	55mm Contact plate	12	1.08	0.11

Sample: 3 - Surface testing using contact plates

Analyte: Total aerobic mesophilic count

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1025	55mm Contact plate	10	1.00	-0.12
HY1051	55mm Contact plate	8	0.90	-0.40
HY1055	55mm Contact plate	1	0.00	-2.98
HY1092	55mm Contact plate	7	0.85	-0.56
HY1100	55mm Contact plate	6	0.78	-0.75
HY1125	55mm Contact plate	14	1.15	0.30
HY1132	55mm Contact plate	20	1.30	0.74
HY1177	55mm Contact plate	10	1.00	-0.12
HY1214	55mm Contact plate	15	1.18	0.38
HY1229	55mm Contact plate	17	1.23	0.54
HY1249	55mm Contact plate	11	1.04	0.00
HY1266	Other	357	2.55	4.32
HY1295	55mm Contact plate	9	0.95	-0.25
HY1429	Other	10	1.00	-0.12
HY1461	Other	30	1.48	1.24
HY1465	Other	4	0.60	-1.26
HY1477	55mm Contact plate	23	1.36	0.92
HY1496	Other	9	0.95	-0.25
HY1518	55mm Contact plate	40	1.60	1.60
HY1567	55mm Contact plate	12	1.08	0.11
HY1586	55mm Contact plate	11	1.04	0.00
HY1591	55mm Contact plate	15	1.18	0.38
HY1599	55mm Contact plate	14	1.15	0.30
HY1613	55mm Contact plate	5	0.70	-0.98
HY1637	55mm Contact plate	12	1.08	0.11
HY1651	55mm Contact plate	13	1.11	0.21
HY1653	55mm Contact plate	17	1.23	0.54
HY1666	55mm Contact plate	8	0.90	-0.40
HY1673	Other	<255.0		
HY1679	55mm Contact plate	26	1.41	1.07
HY1695	55mm Contact plate	5	0.70	-0.98
HY1701	55mm Contact plate	4	0.60	-1.26
HY1705	55mm Contact plate	7	0.85	-0.56
HY1776	55mm Contact plate	18	1.26	0.61
HY1806	55mm Contact plate	20	1.30	0.74
HY1807	55mm Contact plate	49	1.69	1.85
HY1811	55mm Contact plate	13	1.11	0.21
HY1864	55mm Contact plate	2	0.30	-2.12
HY1931	55mm Contact plate	8	0.90	-0.40
HY1955	55mm Contact plate	<1		
HY1976	55mm Contact plate	3	0.48	-1.61
HY2109	55mm Contact plate	9	0.95	-0.25
HY2110	55mm Contact plate	16	1.20	0.46
HY2125	55mm Contact plate	12	1.08	0.11
HY2132	55mm Contact plate	35	1.54	1.44
HY2150	55mm Contact plate	6	0.78	-0.75
HY2305	Other	7	0.85	-0.56
HY2355	55mm Contact plate	28	1.45	1.16
HY2413	55mm Contact plate	8	0.90	-0.40
HY2421	55mm Contact plate	13	1.11	0.21
HY2452	55mm Contact plate	20	1.30	0.74

Sample: 3 - Surface testing using contact plates

Analyte: Total aerobic mesophilic count

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2456	55mm Contact plate	15	1.18	0.38
HY2469	55mm Contact plate	11	1.04	0.00
HY2473	Other	15	1.18	0.38
HY2478	55mm Contact plate	19	1.28	0.68
HY2507	55mm Contact plate	3	0.48	-1.61
HY2520	55mm Contact plate	10	1.00	-0.12
HY2652	55mm Contact plate	8	0.90	-0.40
HY2662	55mm Contact plate	9	0.95	-0.25
HY2667	Other	2	0.30	-2.12
HY2675	55mm Contact plate	2	0.30	-2.12
HY2775	Other	20	1.30	0.74
HY2781	55mm Contact plate	8	0.90	-0.40
HY2811	55mm Contact plate	24	1.38	0.97
HY2862	55mm Contact plate	11	1.04	0.00
HY2878	55mm Contact plate	19	1.28	0.68
HY2882	55mm Contact plate	<1		
HY2926	55mm Contact plate	13	1.11	0.21
HY2936	55mm Contact plate	24	1.38	0.97

Quantitative Statistics

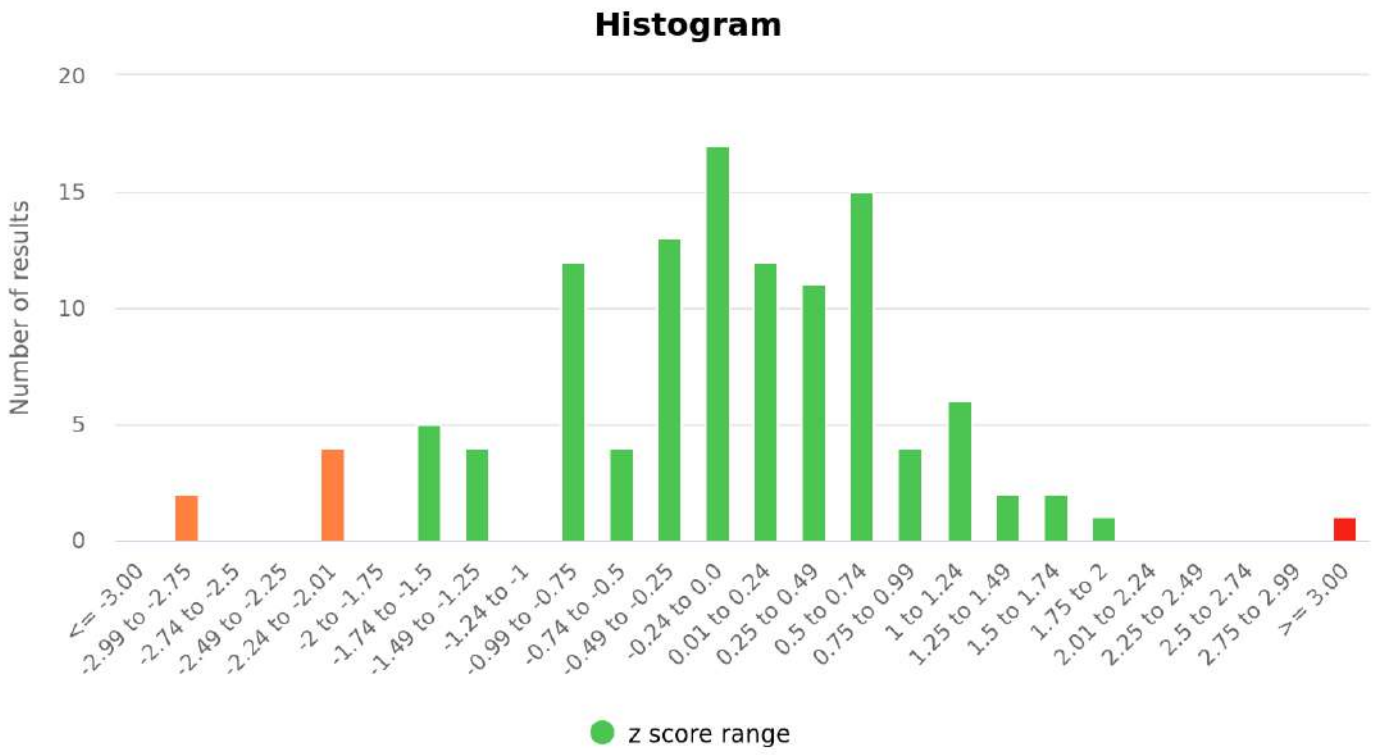
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.04	0.03	0.35	N/A	0.34 to 1.74	93.9%	5.2%	0.9%
	cfu/plate	11	N/A	N/A	N/A	2 to 55	93.9%	5.2%	0.9%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	119	4	1.02	1.04	0.35	0.29	0.00 to 2.55
	cfu/plate	119	4	N/A	N/A	N/A	N/A	1 to 357

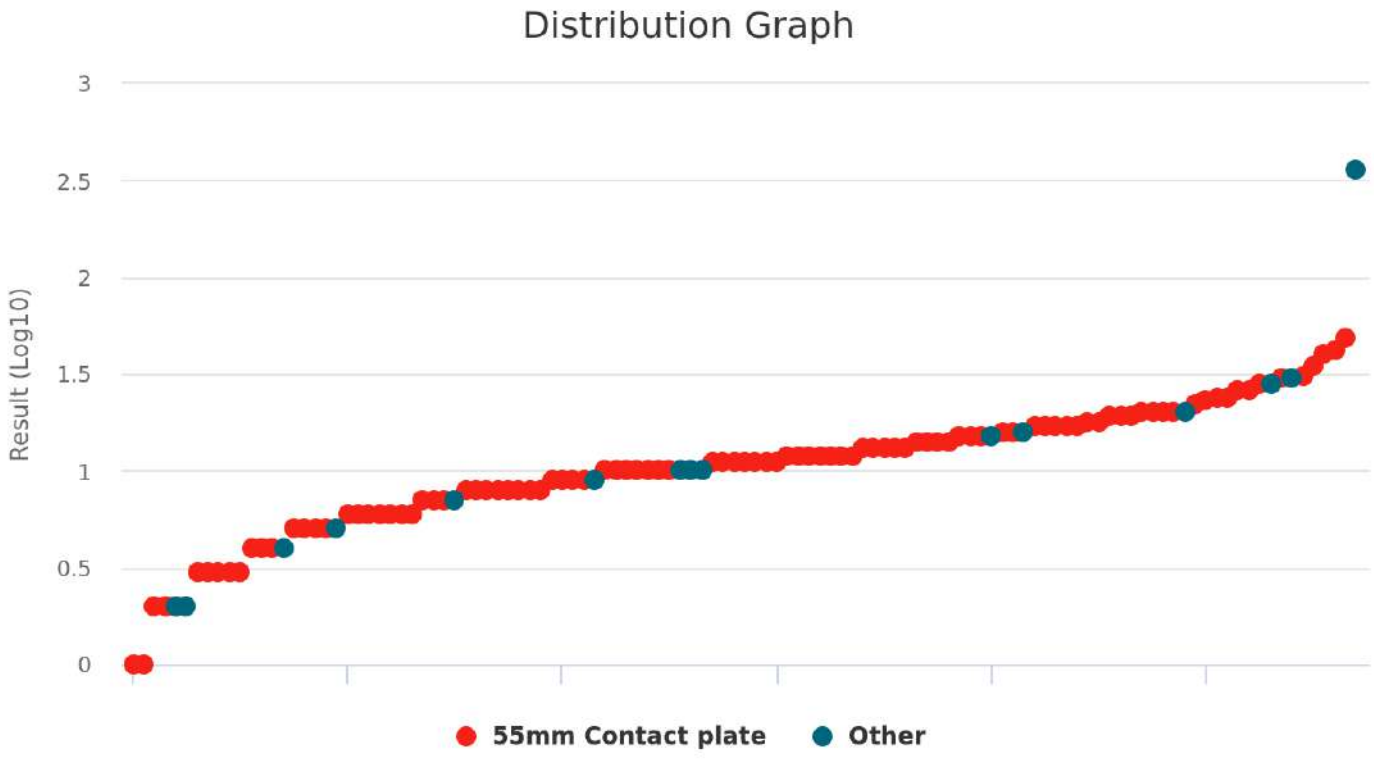
Sample: 3 - Surface testing using contact plates

Analyte: Total aerobic mesophilic count

Histogram



Sample 03



Sample: 3 - Surface testing using contact plates

Analyte: Total aerobic mesophilic count

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
55mm Contact plate	103	3	87	Log10	1.04	0.280	0.00 to 1.69	96.0	4.0	0.0
Other	16	1	13	Log10	1.00	0.446	0.30 to 2.55	80.0	13.3	6.7

Sample: 3 - Surface testing using contact plates

Analyte: Identification of organism

Lab ID	Method	Gram	Oxidase	Catalase	Final Identification
HY0191	Other	-	+	+	Pseudomonas aeruginosa
HY0209	Other	-	+	+	Pseudomonas aeruginosa
HY0251	Molecular	-	+	+	Pseudomonas aeruginosa
HY0570	Other	-	+	Not Tested	Pseudomonas aeruginosa
HY0604	Other	-	+	+	Pseudomonas aeruginosa
HY0809	Other	-	+	Not Tested	Pseudomonas aeruginosa
HY0818	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY0852	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY1010	Other	-	+	Not Tested	Pseudomonas aeruginosa
HY1092	Other	-	+	Not Tested	Pseudomonas aeruginosa
HY1443	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY1591	Biochemical	-	+	Not Tested	Pseudomonas aeruginosa
HY1613	Biochemical	-	+	+	Pseudomonas aeruginosa
HY1637	Biochemical	-	+	+	Pseudomonas aeruginosa
HY1651	Other	-	+	Not Tested	Pseudomonas aeruginosa
HY1653	Other	-	+	+	Pseudomonas aeruginosa
HY1666	Microscopy	-	+	+	Pseudomonas aeruginosa
HY1679	Other	-	+	+	Pseudomonas aeruginosa
HY1695	Biochemical	-	+	Not Tested	Pseudomonas aeruginosa
HY1776	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY1806	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY1811	Selective agar	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY1864	Other	-	+	+	Pseudomonas aeruginosa
HY1931	Other	+	Not Tested	Not Tested	Pseudomonas aeruginosa
HY1973	Other	Not Tested	Not Tested	Not Tested	Staphylococcus species
HY2110	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY2132	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY2413	Other	Not Tested	Not Tested	Not Tested	Pseudomonas aeruginosa
HY2469	Other	-	-	+	Pseudomonas aeruginosa
HY2478	Other	-	Not Tested	Not Tested	Pseudomonas aeruginosa
HY2520	Other	-	+	Not Tested	Pseudomonas aeruginosa
HY2675	Biochemical	-	Not Tested	Not Tested	Pseudomonas aeruginosa
HY2811	Selective agar	Not Tested	+	Not Tested	Pseudomonas aeruginosa

Qualitative Assessment Statistics

Assessment Statistics	Final Identification
Assigned Value	Pseudomonas aeruginosa;Pseudomonas species;Gram-negative rods
Number of Results	33
Satisfactory performance %	97.0%
Unsatisfactory performance %	3.0%

Qualitative Methodology Summary

Methodology Summary		Final Identification
Biochemical	Count	5
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Microscopy	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0

Sample: 3 - Surface testing using contact plates

Analyte: Identification of organism

Qualitative Methodology Summary

Methodology Summary		Final Identification
Molecular	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Other	Count	24
	% Satisfactory	95.8
	% Unsatisfactory	4.2
Selective agar	Count	2
	% Satisfactory	100.0
	% Unsatisfactory	0.0

Sample: 5 – ATP [1]

Analyte: Level of ATP

Lab ID	Method	Result
HY0094	ATP meter (various)	A
HY0508	ATP meter (various)	A
HY0927	ATP meter (various)	A
HY1343	ATP meter (various)	A
HY1674	ATP meter (various)	A
HY1677	ATP meter (various)	A
HY1684	ATP meter (various)	A
HY1810	ATP meter (various)	A
HY2113	ATP meter (various)	A
HY2427	ATP meter (various)	A
HY2568	ATP meter (various)	A
HY2572	ATP meter (various)	A
HY2598	ATP meter (various)	A
HY2612	ATP meter (various)	A
HY2762	ATP meter (various)	A
HY2768	ATP meter (various)	A
HY2801	ATP meter (various)	A
HY2809	ATP meter (various)	A
HY2827	ATP meter (various)	A
HY2868	ATP meter (various)	A
HY2875	ATP meter (various)	A

[1] This sample is not currently within our scope of accreditation.

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	A
	Number of Results	21
	Satisfactory performance %	100.0%

Qualitative Methodology Summary

Methodology Summary		Result
ATP meter (various)	Count	21
	% Satisfactory	100.0

Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0045	55mm Contact plate	<1		
HY0047	55mm Contact plate	7	0.85	-0.44
HY0050	55mm Contact plate	34	1.53	1.52
HY0188	55mm Contact plate	13	1.11	0.33
HY0204	55mm Contact plate	7	0.85	-0.44
HY0209	55mm Contact plate	5	0.70	-0.86
HY0222	55mm Contact plate	<1		
HY0226	55mm Contact plate	2	0.30	-2.00
HY0227	55mm Contact plate	18	1.26	0.73
HY0260	55mm Contact plate	39	1.59	1.69
HY0288	55mm Contact plate	10	1.00	0.00
HY0318	55mm Contact plate	12	1.08	0.23
HY0330	Other	51	1.71	2.02
HY0338	55mm Contact plate	29	1.46	1.32
HY0374	55mm Contact plate	<102.0		
HY0429	55mm Contact plate	8	0.90	-0.28
HY0457	55mm Contact plate	3	0.48	-1.49
HY0478	55mm Contact plate	8	0.90	-0.28
HY0558	55mm Contact plate	13	1.11	0.33
HY0570	55mm Contact plate	8	0.90	-0.28
HY0603	55mm Contact plate	10	1.00	0.00
HY0636	55mm Contact plate	15	1.18	0.50
HY0641	55mm Contact plate	6	0.78	-0.63
HY0662	55mm Contact plate	2	0.30	-2.00
HY0697	55mm Contact plate	8	0.90	-0.28
HY0757	55mm Contact plate	11	1.04	0.12
HY0803	Other	3	0.48	-1.49
HY0830	55mm Contact plate	2	0.30	-2.00
HY0962	55mm Contact plate	5	0.70	-0.86
HY1051	55mm Contact plate	6	0.78	-0.63
HY1092	55mm Contact plate	9	0.95	-0.13
HY1100	55mm Contact plate	20	1.30	0.86
HY1125	55mm Contact plate	6	0.78	-0.63
HY1225	55mm Contact plate	7	0.85	-0.44
HY1249	55mm Contact plate	1	0.00	-2.86
HY1491	55mm Contact plate	13	1.11	0.33
HY1506	55mm Contact plate	17	1.23	0.66
HY1567	55mm Contact plate	4	0.60	-1.14
HY1586	55mm Contact plate	13	1.11	0.33
HY1591	55mm Contact plate	20	1.30	0.86
HY1637	55mm Contact plate	8	0.90	-0.28
HY1653	55mm Contact plate	31	1.49	1.40
HY1666	55mm Contact plate	8	0.90	-0.28
HY1679	55mm Contact plate	17	1.23	0.66
HY1701	55mm Contact plate	25	1.40	1.14
HY2110	55mm Contact plate	16	1.20	0.58
HY2132	55mm Contact plate	<1		
HY2150	55mm Contact plate	7	0.85	-0.44
HY2393	55mm Contact plate	16	1.20	0.58
HY2400	55mm Contact plate	2	0.30	-2.00

Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast

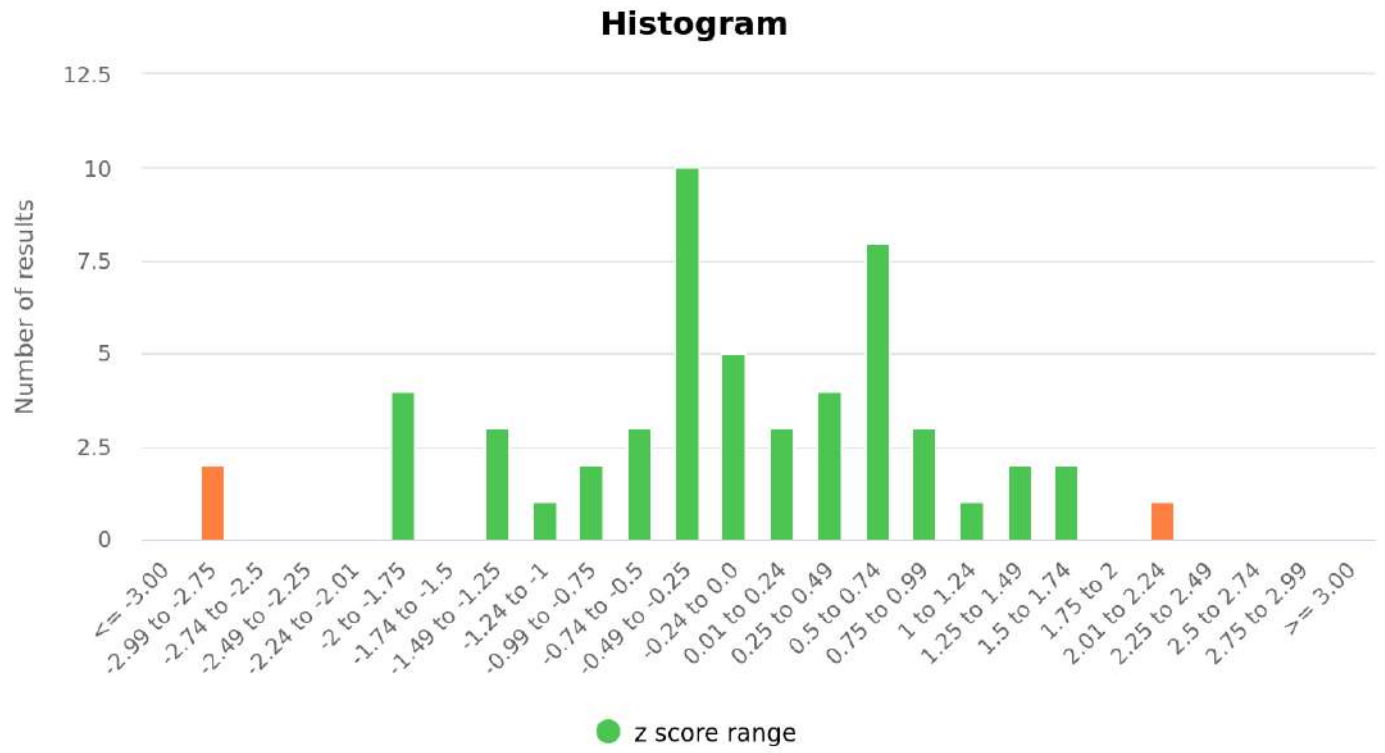
Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2452	55mm Contact plate	10	1.00	0.00
HY2507	55mm Contact plate	1	0.00	-2.86
HY2537	55mm Contact plate	12	1.08	0.23
HY2749	55mm Contact plate	3	0.48	-1.49
HY2781	55mm Contact plate	15	1.18	0.50
HY2788	55mm Contact plate	10	1.00	0.00
HY2811	55mm Contact plate	19	1.28	0.80
HY2878	55mm Contact plate	18	1.26	0.73

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1	0.06	0.35	N/A	0.30 to 1.70	94.4%	5.6%	0.0%
	cfu/plate	10	N/A	N/A	N/A	2 to 50	94.4%	5.6%	0.0%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	58	4	0.95	1	0.38	0.33	0.00 to 1.71
	cfu/plate	58	4	N/A	N/A	N/A	N/A	1 to 51

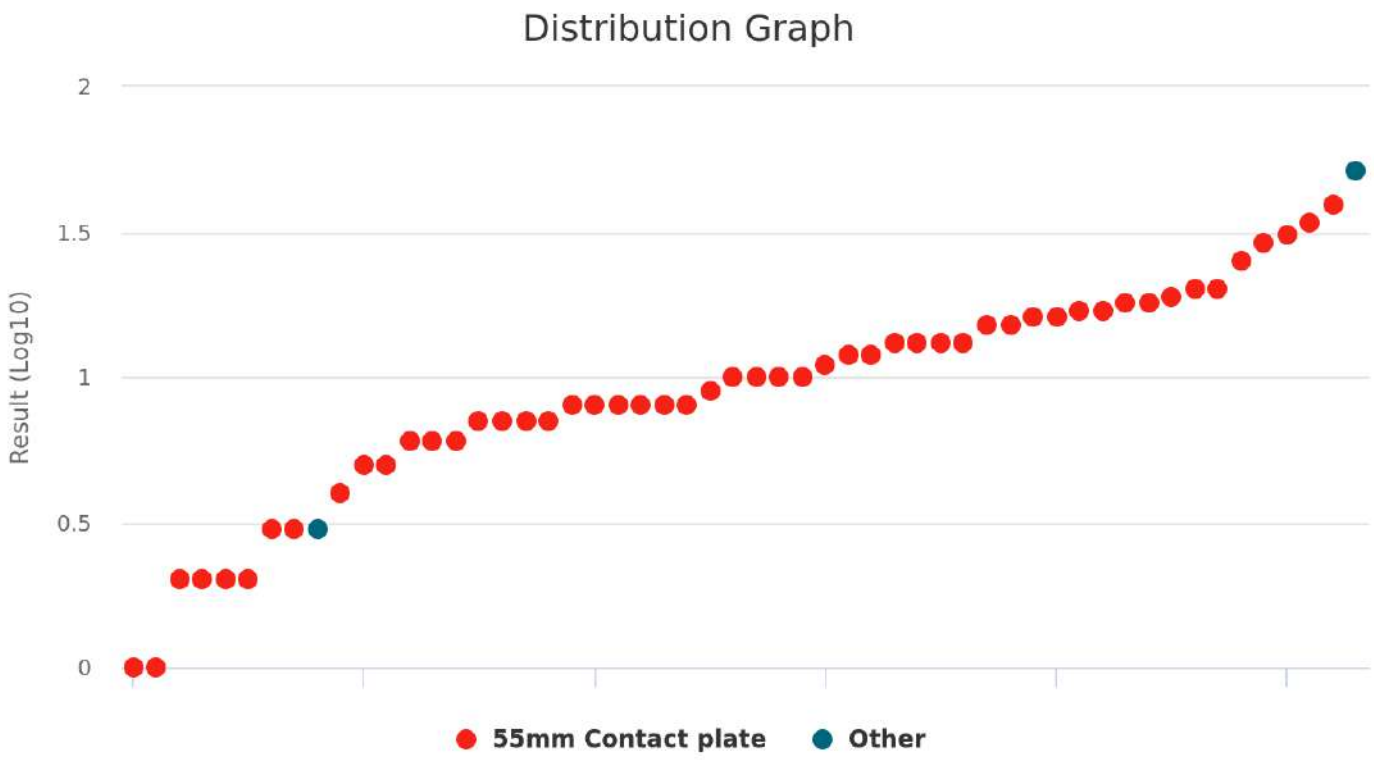
Histogram



Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast

Sample 06



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
55mm Contact plate	56	4	97	Log10	1.00	0.316	0.00 to 1.59	96.2	3.8	0.0
Other	2	0	3	Log10	1.09	0.912	0.48 to 1.71	50.0	50.0	0.0

Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Mould

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0045	55mm Contact plate	2	0.30	-2.62
HY0047	55mm Contact plate	8	0.90	-0.90
HY0050	55mm Contact plate	1	0.00	-3.48
HY0188	55mm Contact plate	8	0.90	-0.90
HY0204	55mm Contact plate	21	1.32	0.30
HY0209	55mm Contact plate	18	1.26	0.11
HY0222	55mm Contact plate	<1		
HY0226	55mm Contact plate	3	0.48	-2.11
HY0227	55mm Contact plate	17	1.23	0.04
HY0260	55mm Contact plate	39	1.59	1.07
HY0318	55mm Contact plate	28	1.45	0.66
HY0330	Other	59	1.77	1.57
HY0338	55mm Contact plate	36	1.56	0.97
HY0374	55mm Contact plate	918	2.96	4.99
HY0429	55mm Contact plate	11	1.04	-0.50
HY0457	55mm Contact plate	22	1.34	0.36
HY0478	55mm Contact plate	21	1.32	0.30
HY0558	55mm Contact plate	16	1.20	-0.04
HY0570	55mm Contact plate	29	1.46	0.70
HY0603	55mm Contact plate	17	1.23	0.04
HY0636	55mm Contact plate	19	1.28	0.18
HY0641	55mm Contact plate	11	1.04	-0.50
HY0662	55mm Contact plate	9	0.95	-0.75
HY0697	55mm Contact plate	16	1.20	-0.04
HY0757	55mm Contact plate	17	1.23	0.04
HY0803	Other	13	1.11	-0.30
HY0830	55mm Contact plate	33	1.52	0.86
HY0962	55mm Contact plate	12	1.08	-0.39
HY1051	55mm Contact plate	12	1.08	-0.39
HY1055	55mm Contact plate	14	1.15	-0.20
HY1092	55mm Contact plate	18	1.26	0.11
HY1100	55mm Contact plate	21	1.32	0.30
HY1125	55mm Contact plate	12	1.08	-0.39
HY1225	55mm Contact plate	20	1.30	0.24
HY1249	55mm Contact plate	8	0.90	-0.90
HY1491	55mm Contact plate	57	1.76	1.54
HY1506	55mm Contact plate	11	1.04	-0.50
HY1567	55mm Contact plate	11	1.04	-0.50
HY1586	55mm Contact plate	16	1.20	-0.04
HY1591	55mm Contact plate	19	1.28	0.18
HY1637	55mm Contact plate	7	0.85	-1.06
HY1653	55mm Contact plate	41	1.61	1.13
HY1666	55mm Contact plate	22	1.34	0.36
HY1679	55mm Contact plate	<1		
HY1701	55mm Contact plate	<1		
HY2110	55mm Contact plate	14	1.15	-0.20
HY2132	55mm Contact plate	19	1.28	0.18
HY2150	55mm Contact plate	7	0.85	-1.06
HY2393	55mm Contact plate	24	1.38	0.47
HY2400	55mm Contact plate	15	1.18	-0.12

Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Mould

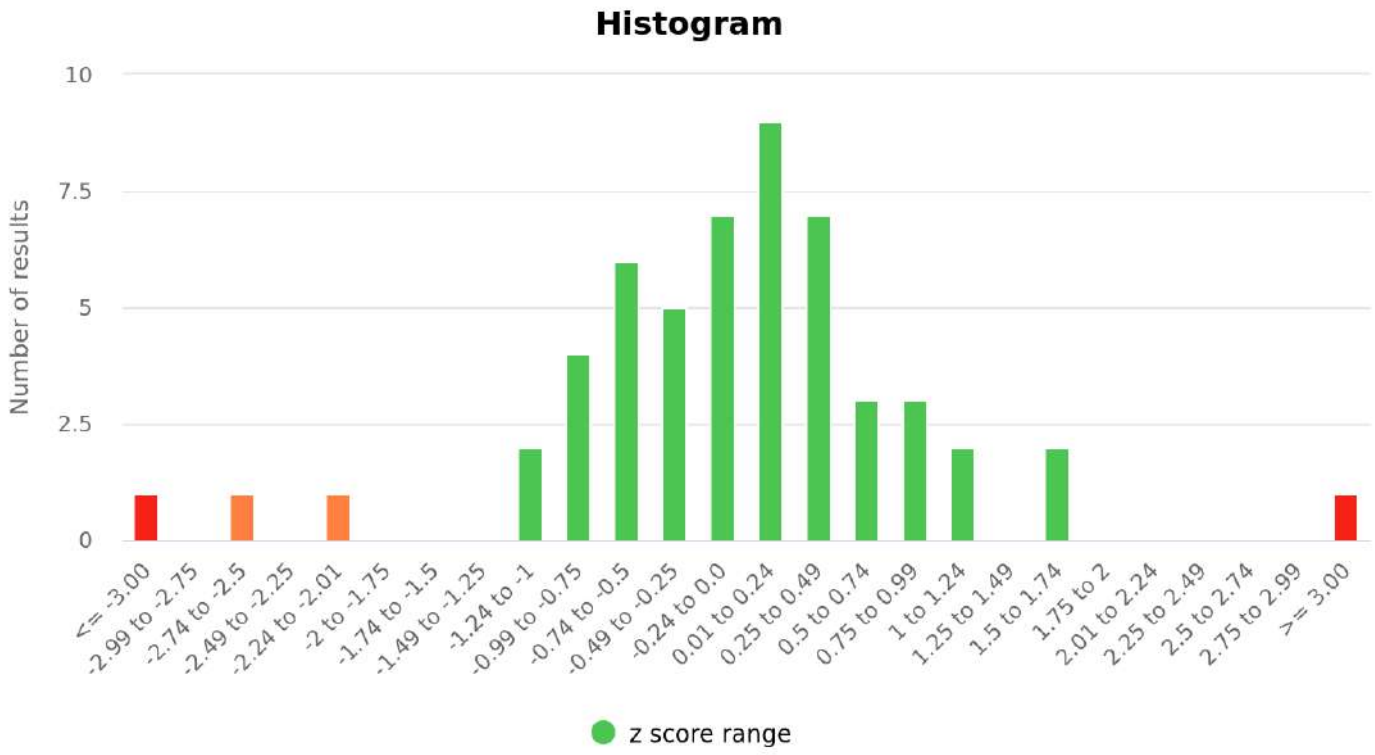
Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY2452	55mm Contact plate	27	1.43	0.61
HY2537	55mm Contact plate	11	1.04	-0.50
HY2749	55mm Contact plate	15	1.18	-0.12
HY2781	55mm Contact plate	13	1.11	-0.30
HY2788	55mm Contact plate	10	1.00	-0.62
HY2811	55mm Contact plate	33	1.52	0.86
HY2878	55mm Contact plate	23	1.36	0.41

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.22	0.04	0.35	N/A	0.52 to 1.92	92.6%	3.7%	3.7%
	cfu/plate	16	N/A	N/A	N/A	3 to 83	92.6%	3.7%	3.7%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	57	3	1.21	1.22	0.40	0.23	0.00 to 2.96
	cfu/plate	57	3	N/A	N/A	N/A	N/A	1 to 918

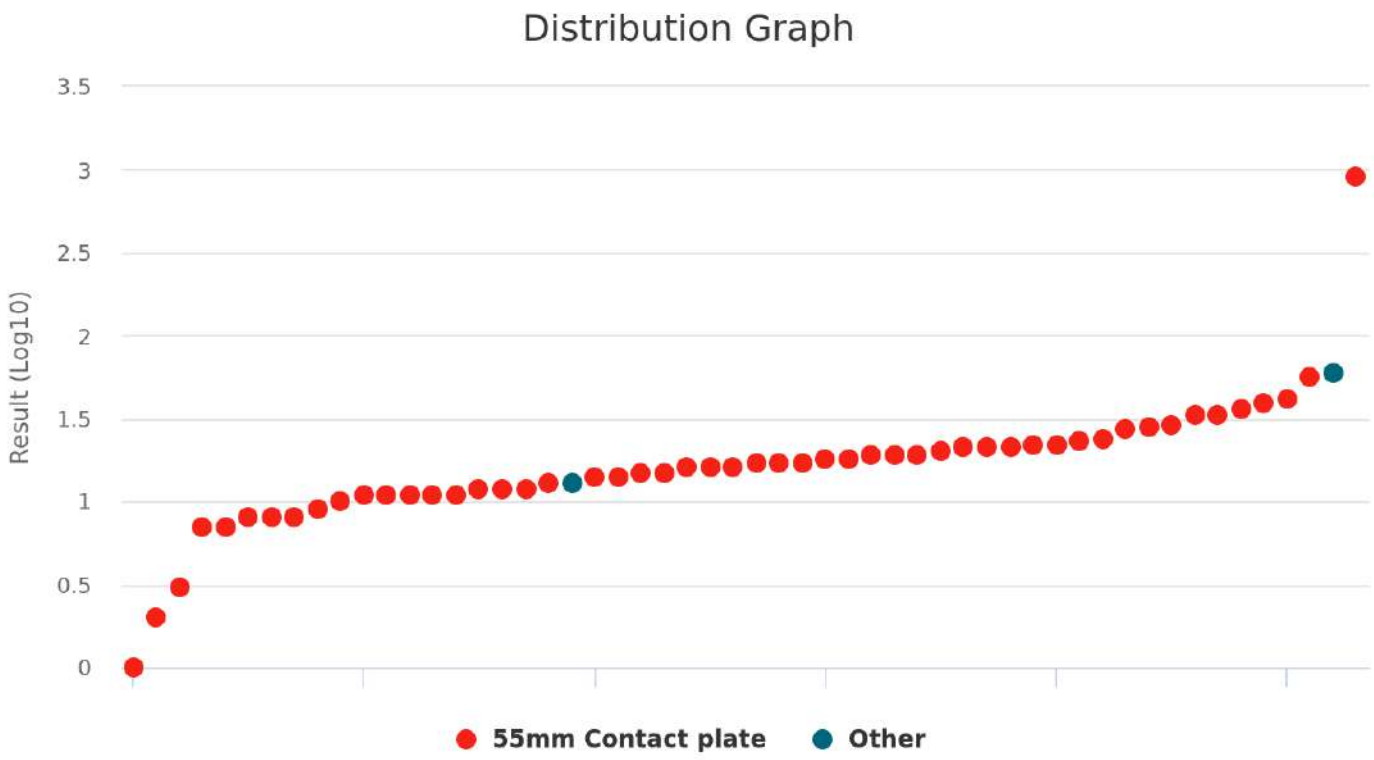
Histogram



Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Mould

Sample 06



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
55mm Contact plate	55	3	96	Log10	1.22	0.228	0.00 to 2.96	92.3	3.8	3.8
Other	2	0	4	Log10	1.44	0.485	1.11 to 1.77	100.0	0.0	0.0

Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast and Mould

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0045	55mm Contact plate	2	0.30	-3.13
HY0047	55mm Contact plate	15	1.18	-0.63
HY0050	55mm Contact plate	35	1.54	0.42
HY0146	55mm Contact plate	11	1.04	-1.02
HY0183	Other	11	1.03	-1.05
HY0188	55mm Contact plate	21	1.32	-0.22
HY0204	55mm Contact plate	28	1.45	0.14
HY0222	55mm Contact plate	<1		
HY0227	55mm Contact plate	35	1.54	0.42
HY0260	55mm Contact plate	77	1.89	1.40
HY0263	55mm Contact plate	24	1.38	-0.05
HY0288	55mm Contact plate	10	1.00	-1.14
HY0318	55mm Contact plate	40	1.60	0.58
HY0330	Other	110	2.04	1.83
HY0338	55mm Contact plate	65	1.81	1.19
HY0374	55mm Contact plate	918	2.96	4.47
HY0429	55mm Contact plate	19	1.28	-0.34
HY0457	55mm Contact plate	25	1.40	0.00
HY0478	55mm Contact plate	29	1.46	0.18
HY0558	55mm Contact plate	29	1.46	0.18
HY0570	55mm Contact plate	37	1.57	0.49
HY0603	55mm Contact plate	27	1.43	0.10
HY0636	55mm Contact plate	34	1.53	0.38
HY0641	55mm Contact plate	17	1.23	-0.48
HY0662	55mm Contact plate	11	1.04	-1.02
HY0697	55mm Contact plate	24	1.38	-0.05
HY0746	55mm Contact plate	19	1.28	-0.34
HY0757	55mm Contact plate	28	1.45	0.14
HY0803	Other	16	1.20	-0.55
HY0830	55mm Contact plate	35	1.54	0.42
HY0888	55mm Contact plate	50	1.70	0.86
HY1051	55mm Contact plate	18	1.26	-0.41
HY1092	55mm Contact plate	27	1.43	0.10
HY1100	55mm Contact plate	41	1.61	0.61
HY1125	55mm Contact plate	18	1.26	-0.41
HY1225	55mm Contact plate	27	1.43	0.10
HY1249	55mm Contact plate	9	0.95	-1.27
HY1450	55mm Contact plate	40	1.60	0.58
HY1491	55mm Contact plate	70	1.85	1.28
HY1506	55mm Contact plate	28	1.45	0.14
HY1566	Other	<2014.5		
HY1567	55mm Contact plate	15	1.18	-0.63
HY1586	55mm Contact plate	28	1.45	0.14
HY1591	55mm Contact plate	39	1.59	0.55
HY1637	55mm Contact plate	15	1.18	-0.63
HY1653	55mm Contact plate	72	1.86	1.31
HY1666	55mm Contact plate	30	1.48	0.23
HY1679	55mm Contact plate	17	1.23	-0.48
HY1701	55mm Contact plate	25	1.40	0.00
HY1843	55mm Contact plate	7	0.85	-1.58

Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast and Mould

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY1931	55mm Contact plate	10	1.00	-1.14
HY2110	55mm Contact plate	30	1.48	0.23
HY2132	55mm Contact plate	19	1.28	-0.34
HY2150	55mm Contact plate	14	1.15	-0.72
HY2355	55mm Contact plate	8	0.90	-1.41
HY2393	55mm Contact plate	40	1.60	0.58
HY2400	55mm Contact plate	17	1.23	-0.48
HY2452	55mm Contact plate	37	1.57	0.49
HY2456	55mm Contact plate	20	1.30	-0.28
HY2646	55mm Contact plate	16	1.20	-0.55
HY2652	55mm Contact plate	16	1.20	-0.55
HY2662	55mm Contact plate	34	1.53	0.38
HY2702	55mm Contact plate	25	1.40	0.00
HY2725	55mm Contact plate	53	1.72	0.93
HY2749	55mm Contact plate	18	1.26	-0.41
HY2780	55mm Contact plate	20	1.30	-0.28
HY2781	55mm Contact plate	28	1.45	0.14
HY2788	55mm Contact plate	20	1.30	-0.28
HY2811	55mm Contact plate	52	1.72	0.91
HY2862	55mm Contact plate	12	1.08	-0.91
HY2878	55mm Contact plate	41	1.61	0.61
HY2926	55mm Contact plate	27	1.43	0.10
HY2936	55mm Contact plate	18	1.26	-0.41

Quantitative Statistics

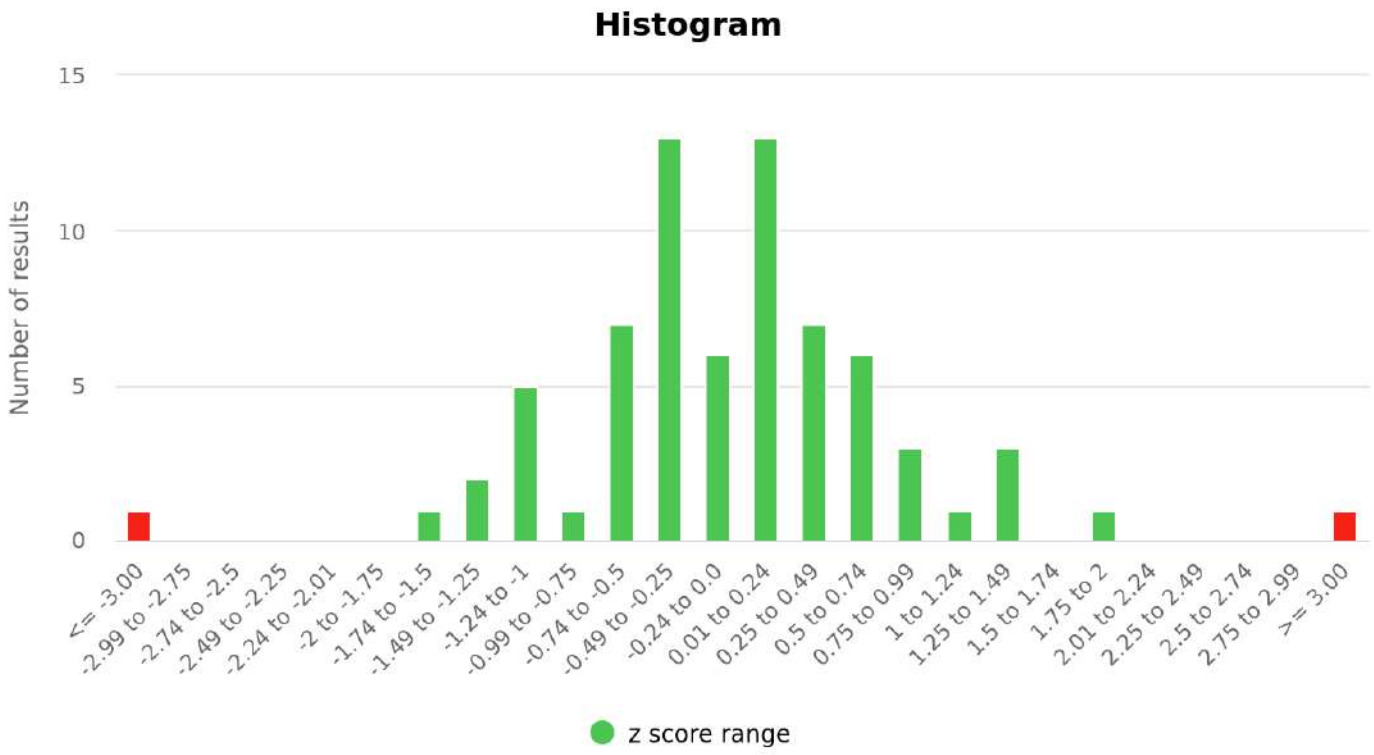
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.40	0.04	0.35	N/A	0.70 to 2.10	97.2%	0.0%	2.8%
	cfu/plate	25	N/A	N/A	N/A	5 to 125	97.2%	0.0%	2.8%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	73	2	1.40	1.40	0.33	0.25	0.30 to 2.96
	cfu/plate	73	2	N/A	N/A	N/A	N/A	2 to 918

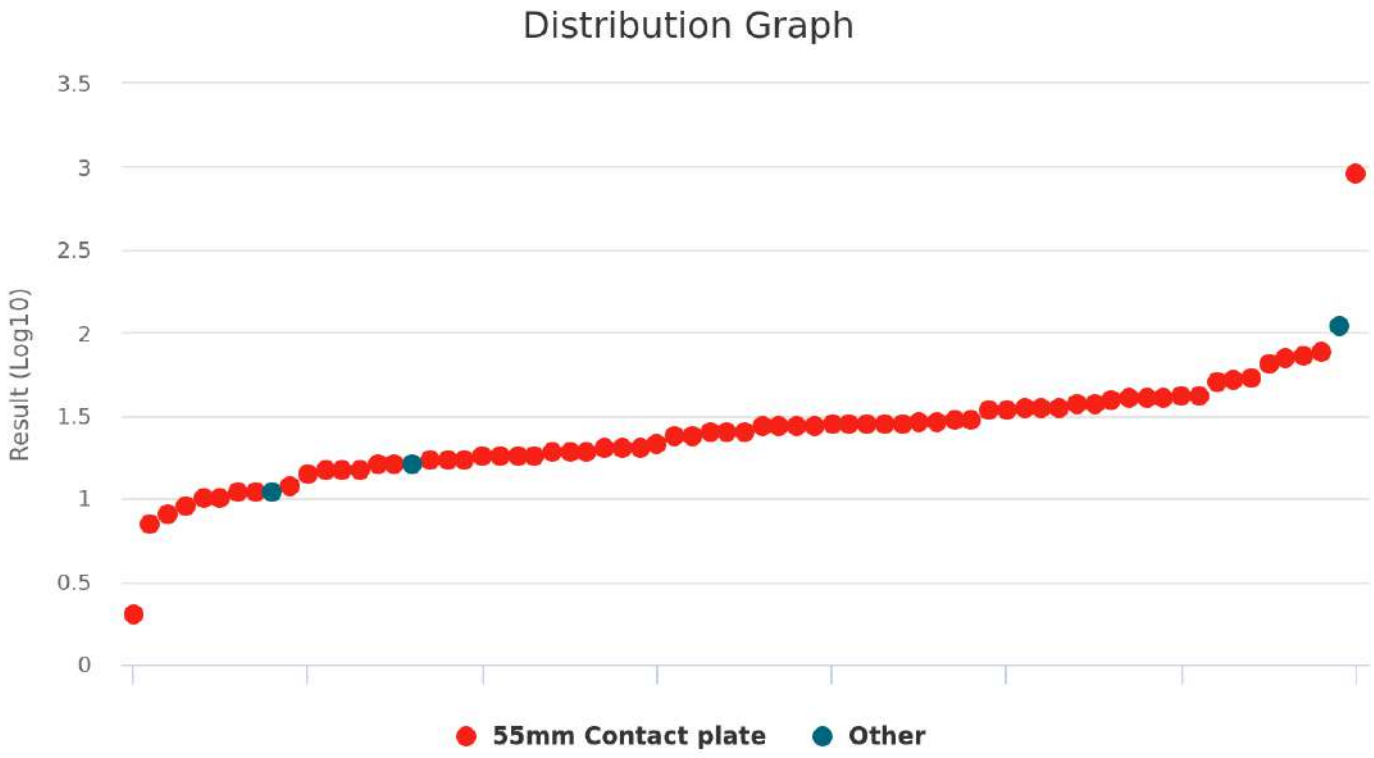
Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast and Mould

Histogram



Sample 06



Sample: 6 – Surface testing using contact plates (Yeast/Mould)

Analyte: Yeast and Mould

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
55mm Contact plate	69	1	95	Log10	1.41	0.236	0.30 to 2.96	97.1	0.0	2.9
Other	4	1	5	Log10	1.20	0.259	1.03 to 2.04	100.0	0.0	0.0

Sample: 7 – Surface testing using contact plates (Staphylococcus aureus)

Analyte: Staphylococcus aureus

Lab ID	Method	Result (cfu/plate)	Log_{10}	z score
HY0001	55mm Contact plate	27	1.43	0.15
HY0038	55mm Contact plate	22	1.34	-0.11
HY0050	55mm Contact plate	8	0.90	-1.36
HY0154	Other	25	1.40	0.05
HY0222	55mm Contact plate	7	0.85	-1.53
HY0263	55mm Contact plate	40	1.60	0.63
HY0338	55mm Contact plate	21	1.32	-0.17
HY0572	55mm Contact plate	36	1.56	0.50
HY0604	55mm Contact plate	32	1.51	0.36
HY0704	Other	400	2.60	3.49
HY0780	Other	4	0.60	-2.22
HY0786	Other	12	1.08	-0.86
HY0852	55mm Contact plate	14	1.15	-0.67
HY1025	55mm Contact plate	37	1.57	0.54
HY1051	55mm Contact plate	20	1.30	-0.23
HY1092	55mm Contact plate	49	1.69	0.89
HY1099	Other	75	1.88	1.41
HY1106	Other	56	1.75	1.05
HY1159	55mm Contact plate	33	1.52	0.40
HY1243	Other	17	1.23	-0.43
HY1303	Other	8	0.90	-1.36
HY1365	55mm Contact plate	27	1.43	0.15
HY1495	Other	2	0.30	-3.08
HY1520	Other	70	1.85	1.33
HY1566	Other	2805	3.45	5.91
HY1591	55mm Contact plate	24	1.38	0.00
HY1666	55mm Contact plate	15	1.18	-0.58
HY1669	Other	1607	3.21	5.22
HY1673	Other	31	1.49	0.30
HY1699	55mm Contact plate	28	1.45	0.19
HY1766	Other	4	0.60	-2.22
HY1843	55mm Contact plate	40	1.60	0.63
HY1917	55mm Contact plate	44	1.64	0.75
HY1939	55mm Contact plate	12	1.08	-0.86
HY1942	55mm Contact plate	75	1.88	1.41
HY2107	55mm Contact plate	100	2.00	1.77
HY2390	55mm Contact plate	11	1.04	-0.97
HY2452	55mm Contact plate	28	1.45	0.19
HY2634	Other	2	0.30	-3.08
HY2690	Other	1530	3.18	5.16
HY2725	55mm Contact plate	6	0.78	-1.72
HY2774	55mm Contact plate	20	1.30	-0.23
HY2788	55mm Contact plate	24	1.38	0.00
HY2921	Other	9	0.95	-1.22

Sample: 7 – Surface testing using contact plates (Staphylococcus aureus)

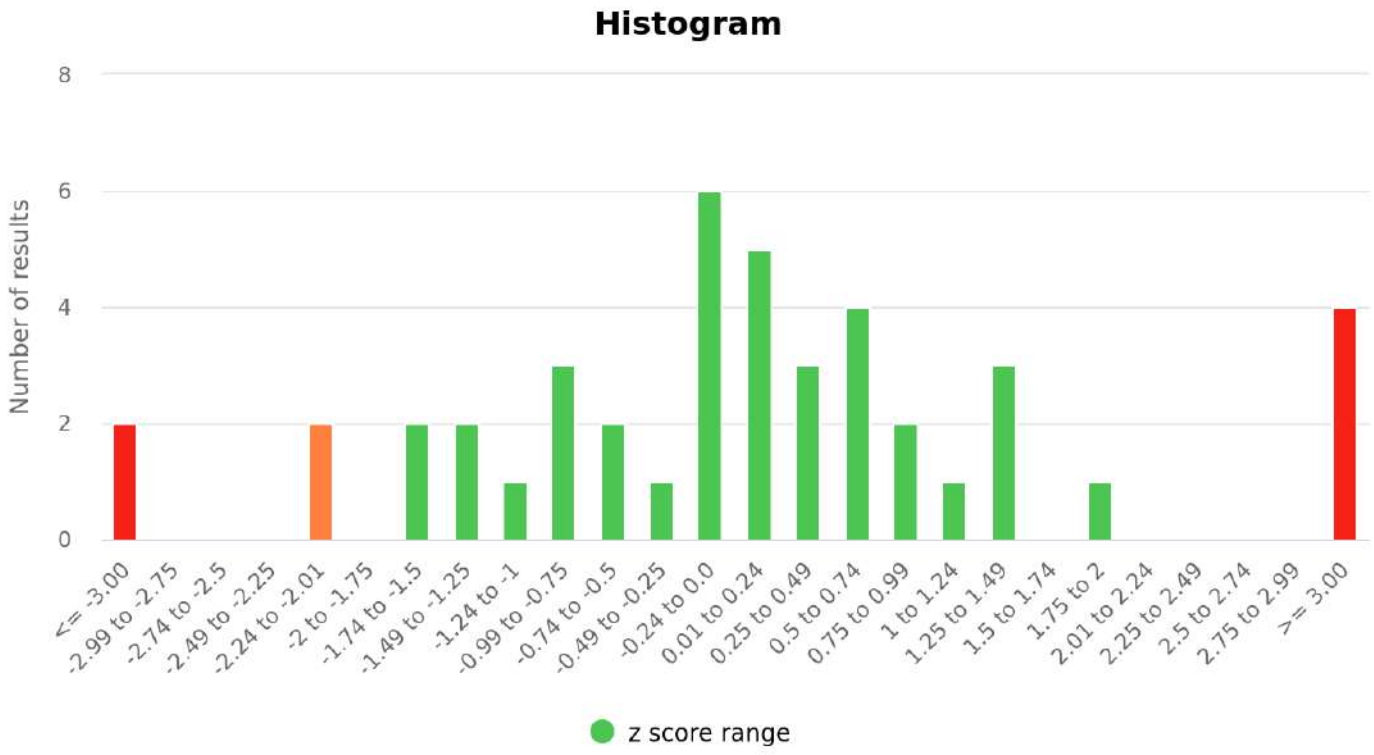
Analyte: Staphylococcus aureus

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.38	0.07	0.35	N/A	0.68 to 2.08	81.8%	4.5%	13.6%
	cfu/plate	24	N/A	N/A	N/A	5 to 120	81.8%	4.5%	13.6%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	44	3	1.32	1.38	0.45	0.35	0.30 to 2.60
	cfu/plate	44	3	N/A	N/A	N/A	N/A	2 to 400

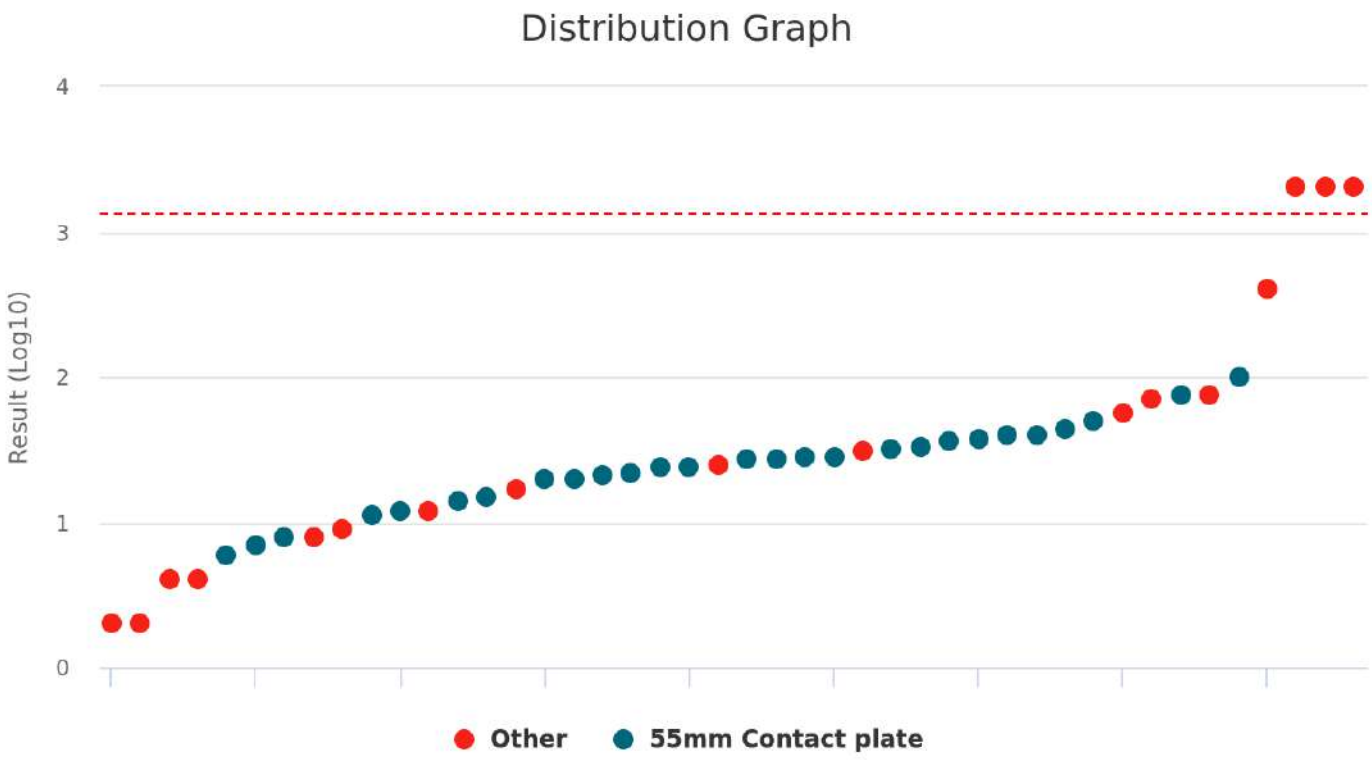
Histogram



Sample: 7 – Surface testing using contact plates (Staphylococcus aureus)

Analyte: Staphylococcus aureus

Sample 07



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
55mm Contact plate	27	0	61	Log10	1.43	0.203	0.78 to 2.00	100.0	0.0	0.0
Other	17	3	39	Log10	1.15	0.820	0.30 to 2.60	52.9	11.8	35.3

Sample: 09 - Air filter testing

Analyte: Total viable count

Lab ID	Method	Result (cfu/filter)	Log_{10}	z score
HY0054	Plate count agar	75	1.88	-0.05
HY0132	Plate count agar	86	1.93	0.12
HY0318	Plate count agar	78	1.89	0.00
HY0385	Plate count agar	8	0.90	-2.83
HY0436	Plate count agar	71	1.85	-0.12
HY0758	Other	76	1.88	-0.03
HY0794	Plate count agar	89	1.95	0.16
HY0929	Plate count agar	29	1.46	-1.23
HY0943	Plate count agar	79	1.90	0.02
HY0947	Other	34	1.53	-1.03
HY1061	Plate count agar	86	1.93	0.12
HY1092	Other	98	1.99	0.28
HY1097	Other	77	1.89	-0.02
HY1313	Plate count agar	60	1.78	-0.33
HY1441	Plate count agar	78	1.89	0.00
HY1462	Plate count agar	86	1.93	0.12
HY1496	Plate count agar	75	1.88	-0.05
HY1520	Plate count agar	75	1.88	-0.05
HY1637	Plate count agar	95	1.98	0.24
HY1666	Other	72	1.86	-0.10
HY1699	Plate count agar	78	1.89	0.00
HY1827	Plate count agar	69	1.84	-0.15
HY1838	Plate count agar	95	1.98	0.24
HY1843	Other	86	1.93	0.12
HY2128	Plate count agar	85	1.93	0.11
HY2310	Plate count agar	72	1.86	-0.10
HY2332	Plate count agar	79	1.90	0.02
HY2333	Plate count agar	82	1.91	0.06
HY2456	Other	85	1.93	0.11
HY2462	Plate count agar	16	1.20	-1.97
HY2514	Plate count agar	92	1.96	0.20
HY2646	Other	91	1.96	0.19
HY2690	Plate count agar	11	1.04	-2.43
HY2739	Plate count agar	31	1.49	-1.14
HY2781	Plate count agar	89	1.95	0.16
HY2903	Other	83	1.92	0.08
HY2915	Plate count agar	83	1.92	0.08
HY2926	Plate count agar	75	1.88	-0.05
HY2932	Plate count agar	<1		
HY2938	Plate count agar	<1		

Quantitative Statistics

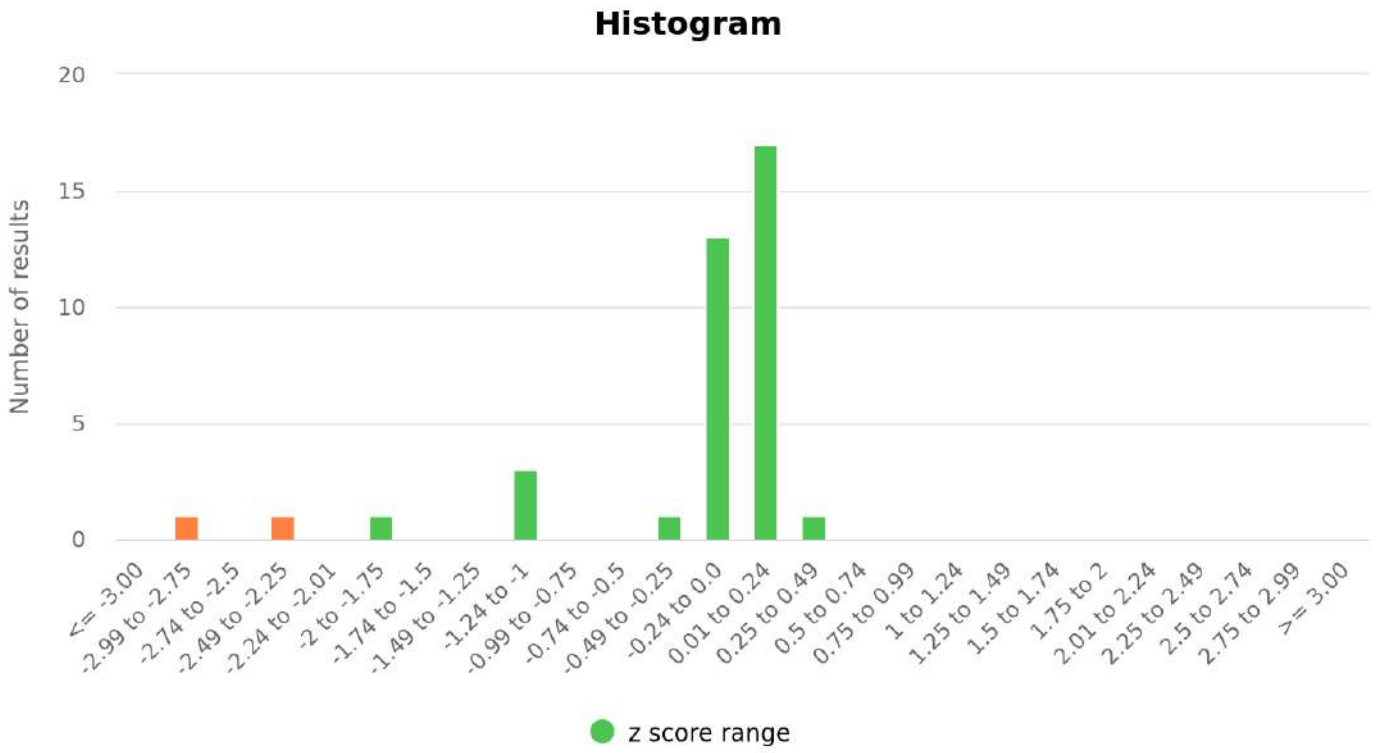
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.89	0.01	0.35	N/A	1.19 to 2.59	94.7%	5.3%	0.0%
	cfu/filter	78	N/A	N/A	N/A	16 to 391	94.7%	5.3%	0.0%

Sample: 09 - Air filter testing

Analyte: Total viable count

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	40	2	1.81	1.89	0.26	0.06	0.90 to 1.99
	cfu/filter	40	2	N/A	N/A	N/A	N/A	8 to 98

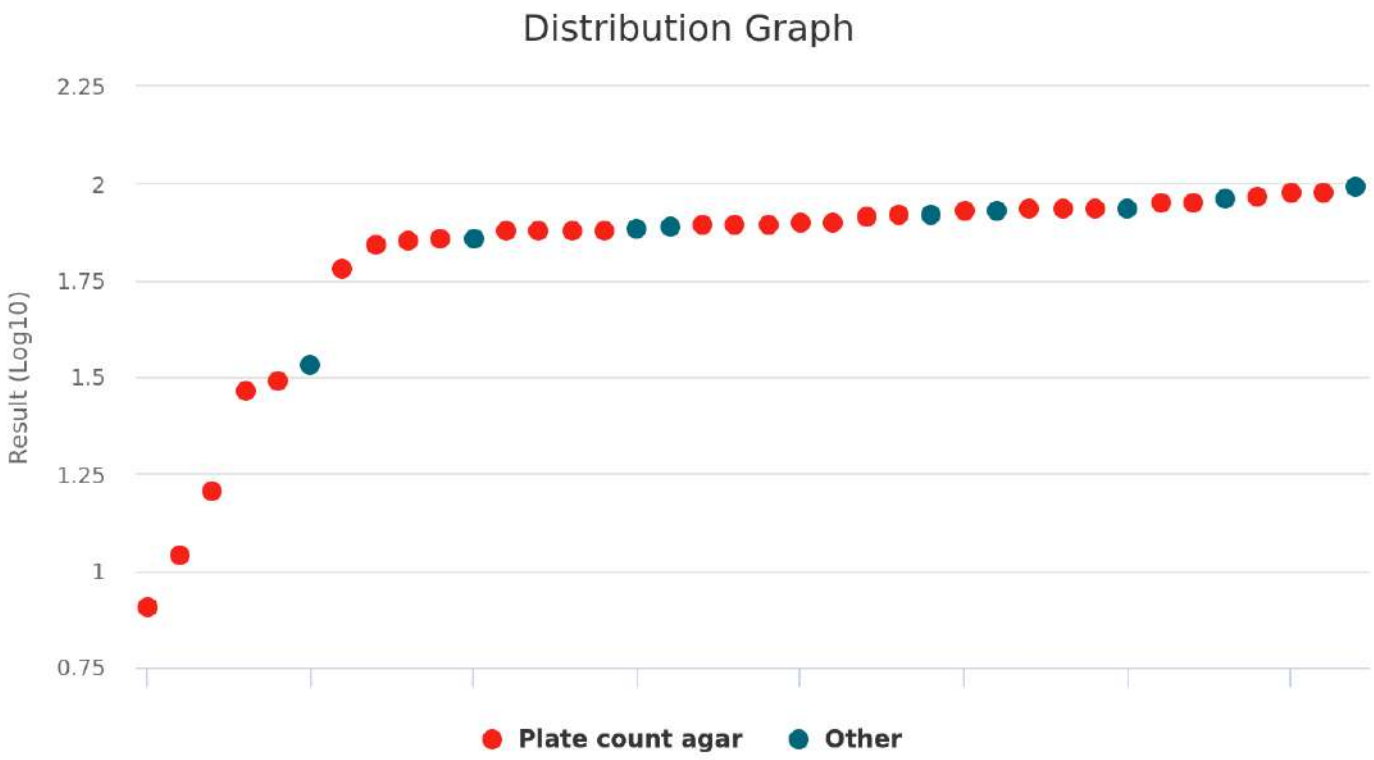
Histogram



Sample: 09 - Air filter testing

Analyte: Total viable count

Sample 09



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
Other	9	0	23	Log10	1.92	0.057	1.53 to 1.99	100.0	0.0	0.0
Plate count agar	31	2	78	Log10	1.89	0.063	0.90 to 1.98	93.1	6.9	0.0

Sample: 09 - Air filter testing

Analyte: Yeast (Direct count)

Lab ID	Method	Result (cfu/filter)	Log_{10}	z score
HY0054	Rose Bengal agar	6	0.78	-0.35
HY0132	Other	13	1.11	0.61
HY0318	Other	5	0.70	-0.57
HY0385	Rose Bengal agar	<1		
HY0436	Dichloran 18 agar	14	1.15	0.70
HY0758	Other	10	1.00	0.29
HY0794	Other	11	1.04	0.40
HY0929	Dichloran 18 agar	<1		
HY0943	DRBC agar	12	1.08	0.51
HY0947	Other	15	1.18	0.79
HY1061	YGC agar	9	0.95	0.16
HY1097	Other	4	0.60	-0.85
HY1313	Other	3	0.48	-1.21
HY1462	DRBC agar	1	0.00	-2.57
HY1496	Rose Bengal agar	3	0.48	-1.21
HY1520	Dichloran 18 agar	4	0.60	-0.85
HY1637	Dichloran 18 agar	12	1.08	0.51
HY1666	Other	2	0.30	-1.71
HY1699	YGC agar	7	0.85	-0.16
HY1827	Other	16	1.20	0.87
HY1838	YGC agar	12	1.08	0.51
HY2128	Other	6	0.78	-0.35
HY2310	YGC agar	7	0.85	-0.16
HY2332	YGC agar	85	1.93	2.94
HY2333	YGC agar	9	0.95	0.16
HY2514	YGC agar	7	0.85	-0.16
HY2646	Other	3	0.48	-1.21
HY2690	DRBC agar	<1		
HY2690	Dichloran 18 agar	<1		
HY2781	Other	14	1.15	0.70
HY2903	YGC agar	7	0.85	-0.16
HY2915	Other	9	0.95	0.16
HY2932	Malt extract agar	<1		
HY2938	Other	<1		

Quantitative Statistics

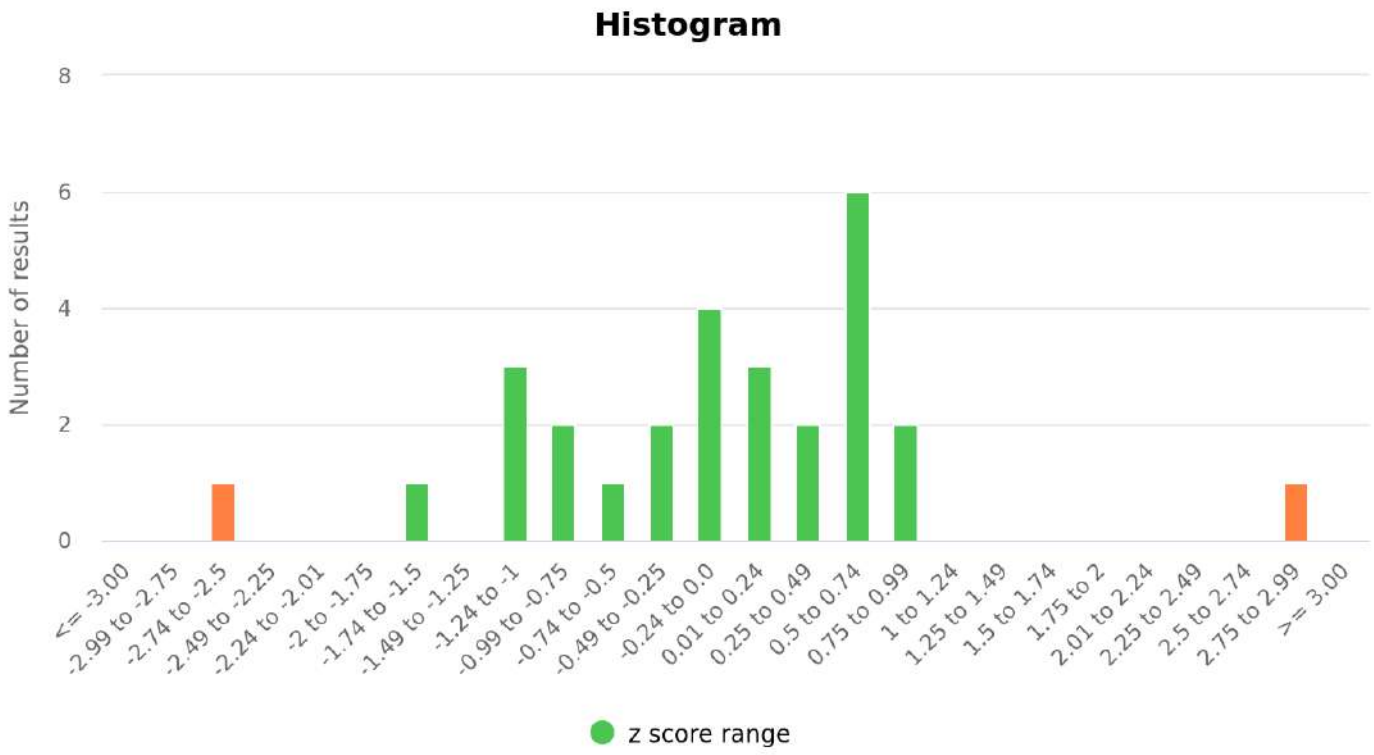
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	0.90	0.07	0.35	N/A	0.20 to 1.60	92.9%	7.1%	0.0%
	cfu/filter	8	N/A	N/A	N/A	2 to 40	92.9%	7.1%	0.0%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	34	6	0.87	0.90	0.36	0.28	0.00 to 1.93
	cfu/filter	34	6	N/A	N/A	N/A	N/A	1 to 85

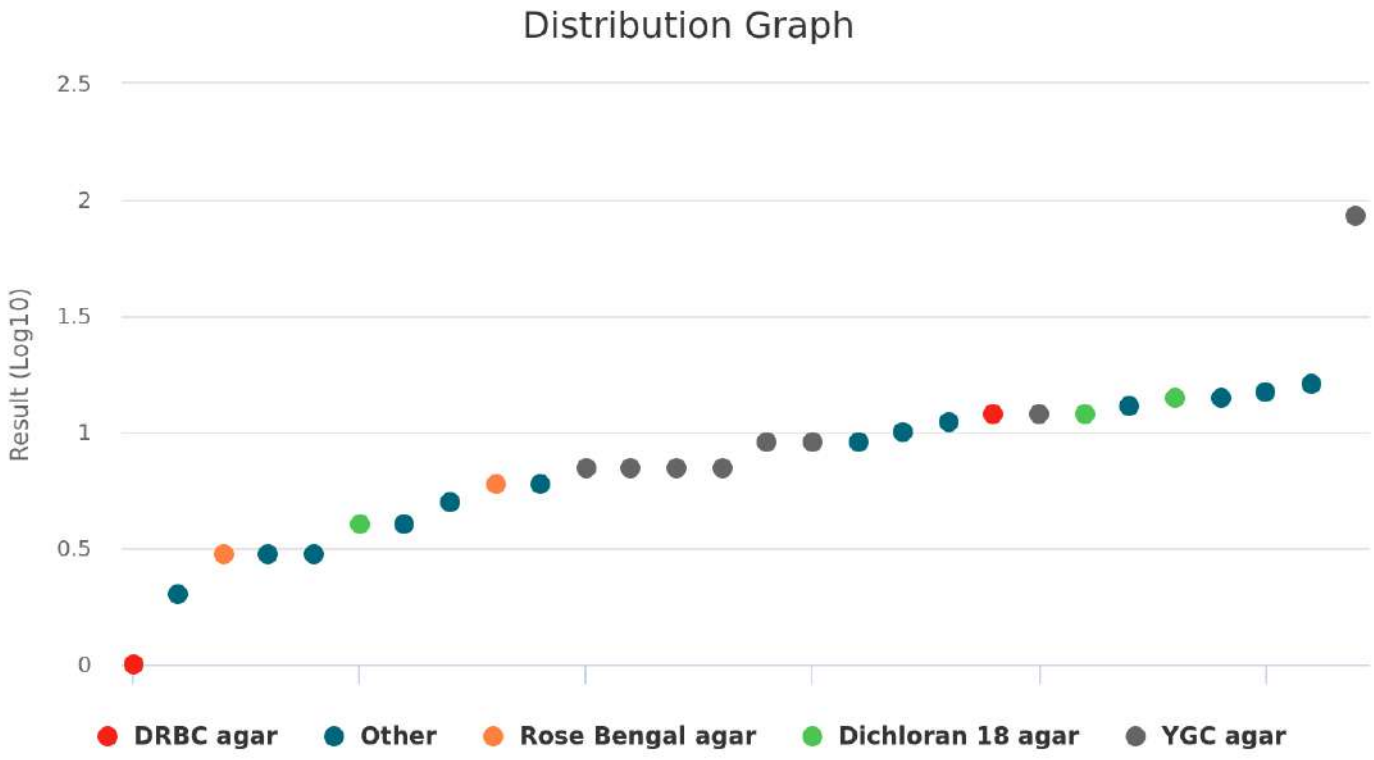
Sample: 09 - Air filter testing

Analyte: Yeast (Direct count)

Histogram



Sample 09



Sample: 09 - Air filter testing

Analyte: Yeast (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	3	1	9	Log10	0.54	0.800	0.00 to 1.08	50.0	50.0	0.0
Dichloran 18 agar	5	2	15	Log10	1.08	0.099	0.60 to 1.15	100.0	0.0	0.0
Malt extract agar	1	1	3	Log10		N/A	N/A to N/A	0.0	0.0	0.0
Other	14	1	41	Log10	0.95	0.329	0.30 to 1.20	100.0	0.0	0.0
Rose Bengal agar	3	1	9	Log10	0.63	0.223	0.48 to 0.78	100.0	0.0	0.0
YGC agar	8	0	24	Log10	0.90	0.081	0.85 to 1.93	87.5	12.5	0.0

Sample: 09 - Air filter testing

Analyte: Mould (Direct count)

Lab ID	Method	Result (cfu/filter)	Log_{10}	z score
HY0054	Rose Bengal agar	<1		
HY0132	Other	<1		
HY0318	Other	1	0.00	
HY0385	Rose Bengal agar	<1		
HY0436	Dichloran 18 agar	<1		
HY0758	Other	<2		
HY0794	Other	<1		
HY0929	Dichloran 18 agar	<1		
HY0943	DRBC agar	<1		
HY0947	Other	<1		
HY1061	YGC agar	<1		
HY1097	Other	<1		
HY1313	Other	<1		
HY1462	DRBC agar	<1		
HY1496	Rose Bengal agar	<1		
HY1520	Dichloran 18 agar	<1		
HY1637	Dichloran 18 agar	<1		
HY1666	Other	<1		
HY1699	YGC agar	<1		
HY1827	Other	<1		
HY1838	YGC agar	<1		
HY2128	Other	<1		
HY2310	YGC agar	<1		
HY2332	YGC agar	7	0.85	
HY2333	YGC agar	<1		
HY2514	YGC agar	<1		
HY2690	DRBC agar	<1		
HY2690	Dichloran 18 agar	<1		
HY2781	Other	<1		
HY2903	Other	<1		
HY2915	Other	<1		
HY2932	Malt extract agar	<1		
HY2938	Other	<1		

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	Absent	0.55	N/A	N/A		-	-	-
	cfu/filter	Absent	N/A	N/A	N/A		-	-	-

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	33	33	N/A	N/A	N/A	N/A	0.00 to 0.85
	cfu/filter	33	33	N/A	N/A	N/A	N/A	1 to 7

Sample: 09 - Air filter testing

Analyte: Yeast and Mould (Direct count)

Lab ID	Method	Result (cfu/filter)	Log_{10}	z score
HY0132	Other	13	1.11	0.77
HY0318	Other	5	0.70	-0.42
HY0436	Dichloran 18 agar	14	1.15	0.86
HY0758	Other	10	1.00	0.44
HY0794	Other	11	1.04	0.56
HY0929	Dichloran 18 agar	<1		
HY0947	Other	15	1.18	0.95
HY1097	Other	4	0.60	-0.69
HY1313	Other	3	0.48	-1.05
HY1462	DRBC agar	1	0.00	-2.41
HY1496	Rose Bengal agar	3	0.48	-1.05
HY1520	Dichloran 18 agar	4	0.60	-0.69
HY1637	Dichloran 18 agar	12	1.08	0.67
HY1666	Other	2	0.30	-1.55
HY1699	YGC agar	7	0.85	0.00
HY1827	Other	16	1.20	1.03
HY1838	YGC agar	12	1.08	0.67
HY1843	Other	19	1.28	1.24
HY2128	Other	6	0.78	-0.19
HY2310	YGC agar	7	0.85	0.00
HY2332	YGC agar	92	1.96	3.20
HY2333	YGC agar	9	0.95	0.31
HY2456	Other	60	1.78	2.67
HY2462	DRBC agar	7	0.85	0.00
HY2514	YGC agar	7	0.85	0.00
HY2646	Other	3	0.48	-1.05
HY2739	Rose Bengal agar	2	0.30	-1.55
HY2781	Other	14	1.15	0.86
HY2903	Other	7	0.85	0.00
HY2915	Other	10	1.00	0.44
HY2926	Other	4	0.60	-0.69
HY2932	Malt extract agar	<1		
HY2938	Other	<1		

Quantitative Statistics

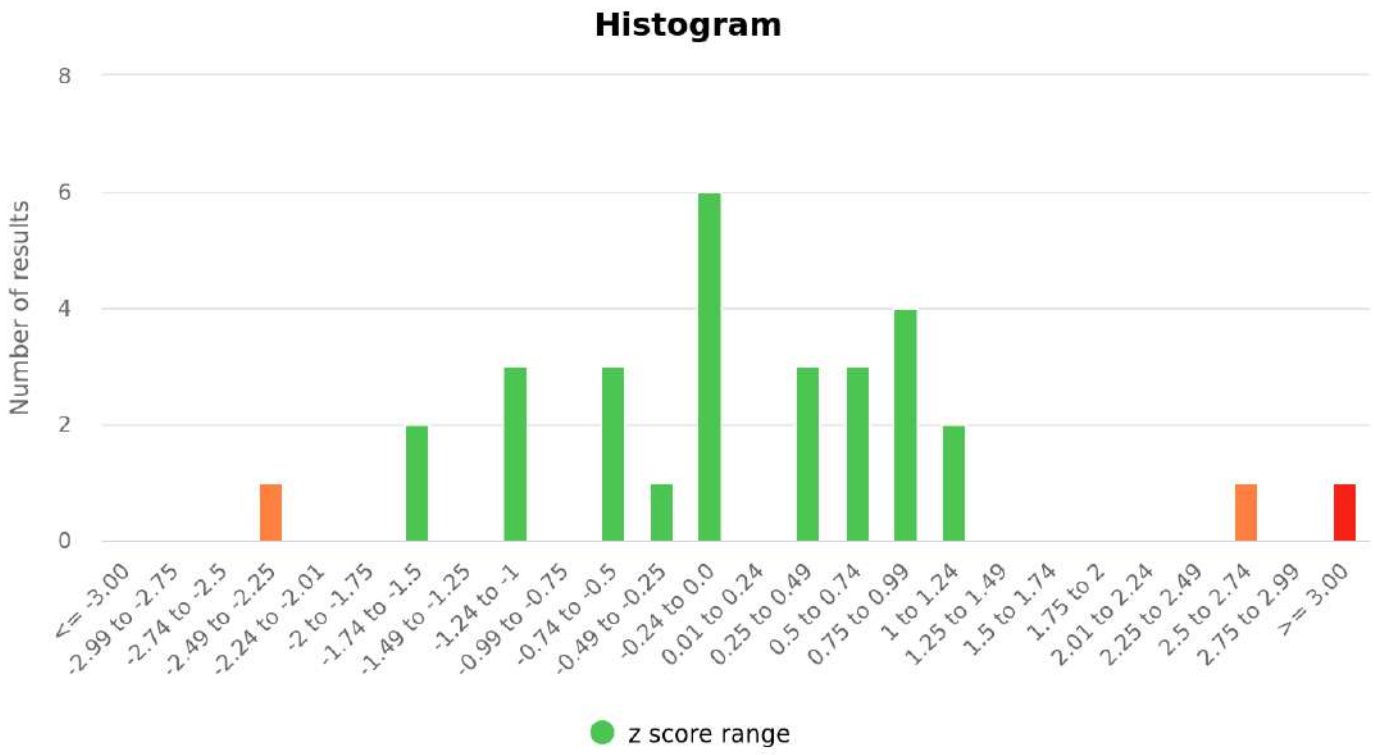
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	0.85	0.08	0.35	N/A	0.15 to 1.55	90.0%	6.7%	3.3%
	cfu/filter	7	N/A	N/A	N/A	1 to 35	90.0%	6.7%	3.3%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	33	3	0.88	0.85	0.41	0.36	0.00 to 1.96
	cfu/filter	33	3	N/A	N/A	N/A	N/A	1 to 92

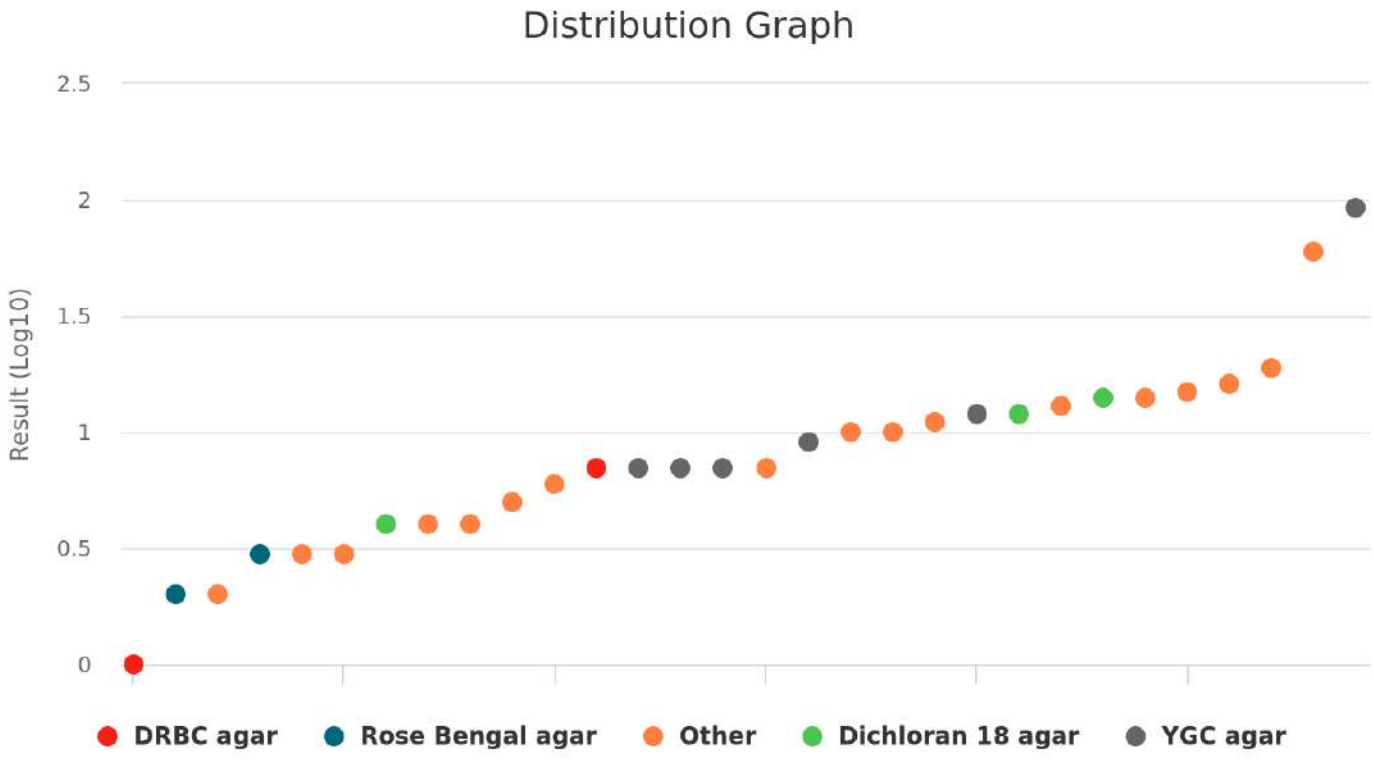
Sample: 09 - Air filter testing

Analyte: Yeast and Mould (Direct count)

Histogram



Sample 10



Sample: 09 - Air filter testing

Analyte: Yeast and Mould (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	2	0	6	Log10	0.42	0.627	0.00 to 0.85	50.0	50.0	0.0
Dichloran 18 agar	4	1	12	Log10	1.08	0.099	0.60 to 1.15	100.0	0.0	0.0
Malt extract agar	1	1	3	Log10		N/A	N/A to N/A	0.0	0.0	0.0
Other	18	1	55	Log10	1.00	0.329	0.30 to 1.78	94.1	5.9	0.0
Rose Bengal agar	2	0	6	Log10	0.39	0.131	0.30 to 0.48	100.0	0.0	0.0
YGC agar	6	0	18	Log10	0.90	0.081	0.85 to 1.96	83.3	0.0	16.7

Sample: 10 - Swab rinsate sample

Analyte: Total aerobic mesophilic count

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0023	Plate count agar	5000	3.70	0.64
HY0110	Plate count agar	32000	4.51	2.94
HY0123	Plate count agar	4500	3.65	0.51
HY0128	Plate count agar	4200	3.62	0.42
HY0132	Plate count agar	4455	3.65	0.50
HY0154	Plate count agar	2200	3.34	-0.38
HY0376	Plate count agar	5400	3.73	0.74
HY0422	Plate count agar	2673	3.43	-0.14
HY0436	Plate count agar	7500	3.88	1.14
HY0572	Other	3860	3.59	0.32
HY0604	Other	3100	3.49	0.05
HY0609	Plate count agar	4000	3.60	0.36
HY0628	Petrifilm	280	2.45	-2.94
HY0714	Plate count agar	4600	3.66	0.54
HY0722	Plate count agar	3000	3.48	0.01
HY0722	Petrifilm	3050	3.48	0.03
HY0803	Plate count agar	5700	3.76	0.80
HY0806	Plate count agar	3100	3.49	0.05
HY0851	Plate count agar	2800	3.45	-0.08
HY0896	Other	4300	3.63	0.45
HY1027	Plate count agar	1400	3.15	-0.94
HY1028	Plate count agar	2600	3.41	-0.17
HY1092	Other	3350	3.53	0.14
HY1098	Plate count agar	29000	4.46	2.82
HY1444	Plate count agar	2700	3.43	-0.12
HY1462	Plate count agar	2600	3.41	-0.17
HY1489	Plate count agar	28000	4.45	2.78
HY1496	Plate count agar	1800	3.26	-0.63
HY1605	Plate count agar	3100	3.49	0.05
HY1637	Plate count agar	970	2.99	-1.39
HY1666	Plate count agar	2815	3.45	-0.07
HY1886	Other	3000	3.48	0.01
HY1893	Other	1340	3.13	-0.99
HY1923	Plate count agar	385	2.59	-2.54
HY1924	Plate count agar	700	2.85	-1.80
HY1925	Petrifilm	6680	3.82	1.00
HY1957	Petrifilm	2100	3.32	-0.44
HY2413	Plate count agar	2850	3.45	-0.06
HY2420	Plate count agar	1500	3.18	-0.85
HY2452	Plate count agar	2250	3.35	-0.35
HY2472	Other	1600	3.20	-0.77
HY2548	Plate count agar	2982	3.47	0.00
HY2657	Petrifilm	2000	3.30	-0.50
HY2668	Plate count agar	3000	3.48	0.01
HY2774	Plate count agar	1973	3.30	-0.51
HY2792	Petrifilm	196	2.29	-3.38
HY2793	Petrifilm	150	2.18	-3.71
HY2837	Plate count agar	88	1.94	-4.37
HY2883	Petrifilm	49	1.69	-5.10
HY2885	Plate count agar	5300	3.72	0.71

Sample: 10 - Swab rinsate sample

Analyte: Total aerobic mesophilic count

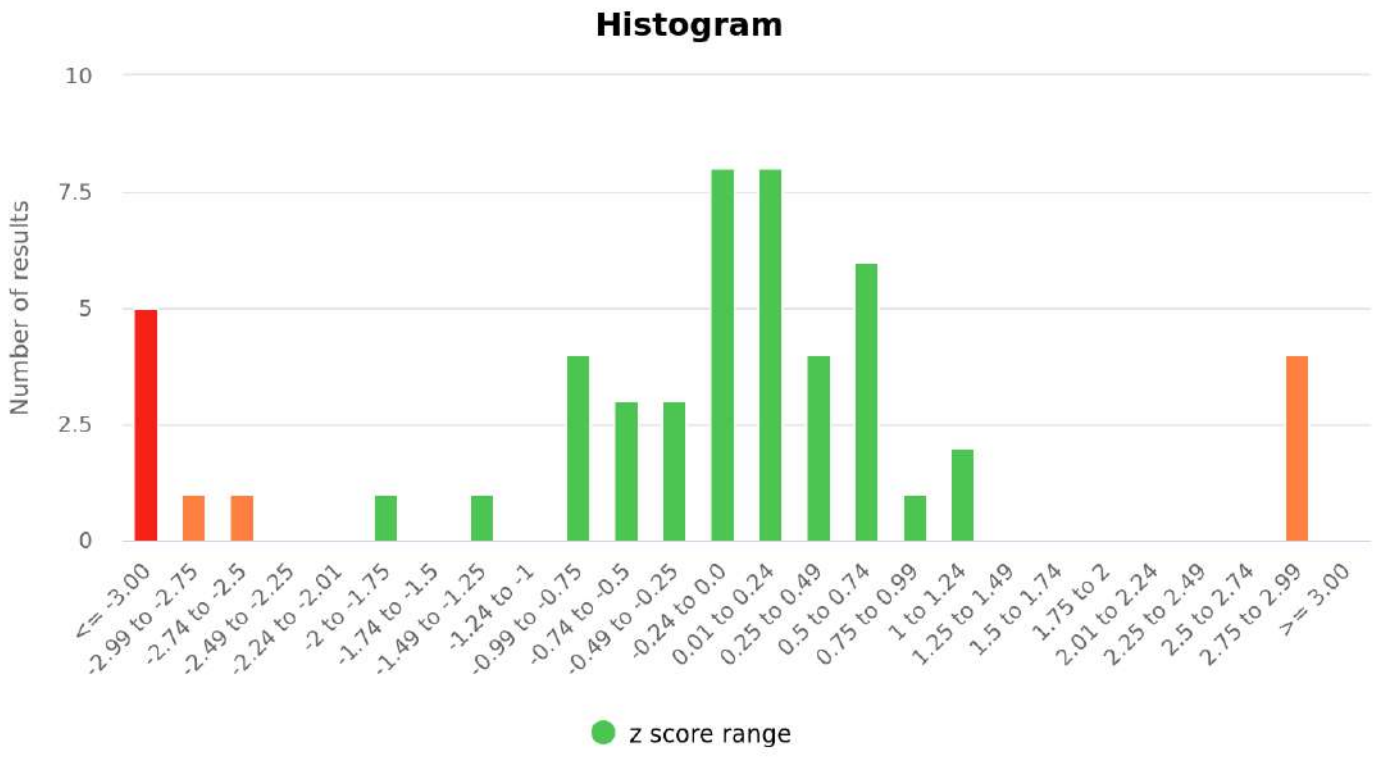
Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY2890	Plate count agar	28000	4.45	2.78
HY2916	Other	150	2.18	-3.71

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	3.47	0.05	0.35	N/A	2.77 to 4.17	78.8%	11.5%	9.6%
	cfu/mL	2982	N/A	N/A	N/A	595 to 14945	78.8%	11.5%	9.6%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	52	1	3.40	3.47	0.54	0.27	1.94 to 4.51
	cfu/mL	52	1	N/A	N/A	N/A	N/A	88 to 32000

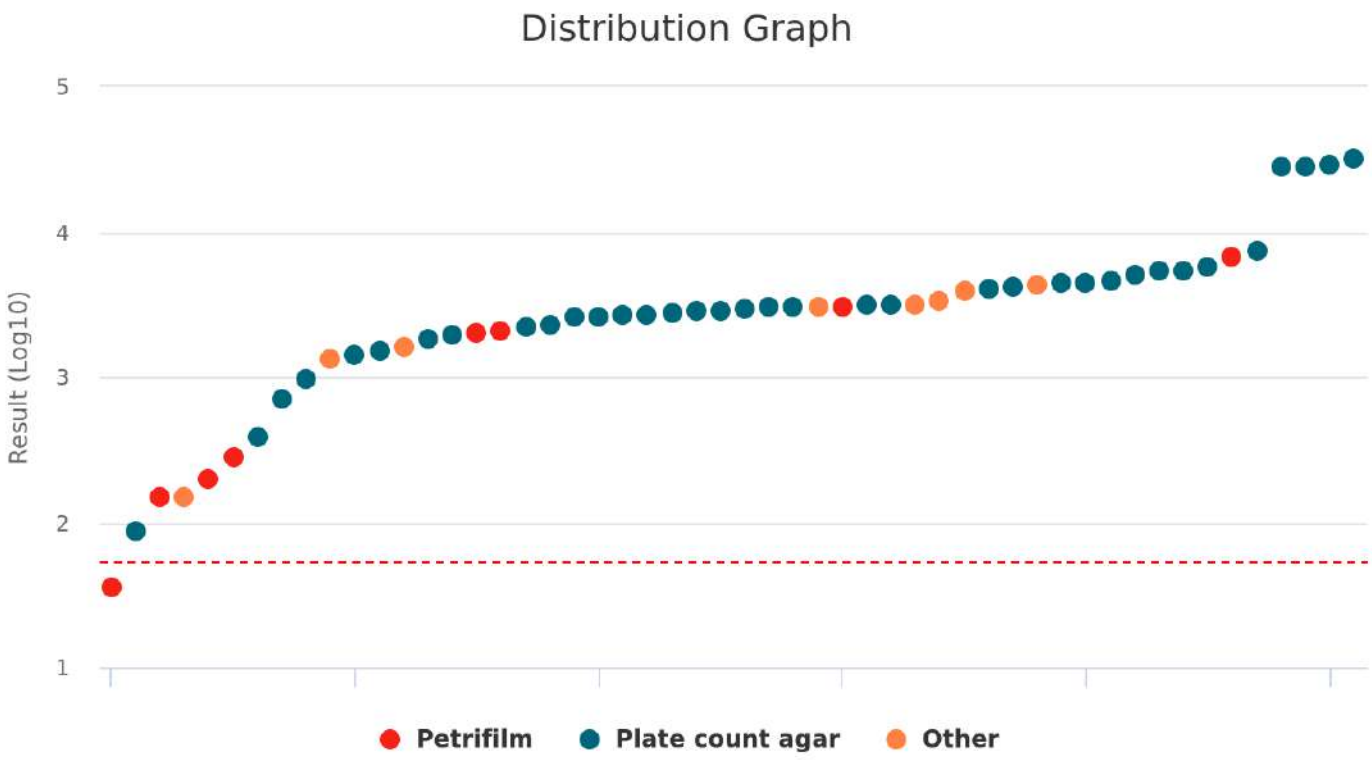
Histogram



Sample: 10 - Swab rinsate sample

Analyte: Total aerobic mesophilic count

Sample 10



Results above or below the dotted line are gross errors or blunders truncated for display purposes

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
Other	8	0	15	Log10	3.48	0.187	2.18 to 3.63	87.5	0.0	12.5
Petrifilm	8	1	15	Log10	3.30	0.777	2.18 to 3.82	50.0	12.5	37.5
Plate count agar	36	0	69	Log10	3.48	0.266	1.94 to 4.51	83.3	13.9	2.8

Sample: 10 - Swab rinsate sample

Analyte: Yeast (Direct count)

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0023	YGC agar	3800	3.58	0.50
HY0023	Dichloran 18 agar	3900	3.59	0.53
HY0023	Other	3000	3.48	0.20
HY0128	YGC agar	2500	3.40	-0.02
HY0132	Other	4818	3.68	0.79
HY0154	Other	1600	3.20	-0.58
HY0376	Dichloran 18 agar	2750	3.44	0.09
HY0422	DRBC agar	2600	3.41	0.02
HY0422	Dichloran 18 agar	11400	4.06	1.86
HY0517	DRBC agar	2700	3.43	0.07
HY0572	Other	2900	3.46	0.16
HY0609	DRBC agar	2900	3.46	0.16
HY0609	Dichloran 18 agar	3100	3.49	0.24
HY0683	Dichloran 18 agar	2395	3.38	-0.08
HY0714	OGYE agar	3100	3.49	0.24
HY0803	Dichloran 18 agar	2800	3.45	0.12
HY0806	Other	3400	3.53	0.36
HY0896	Other	2700	3.43	0.07
HY1028	Rose Bengal agar	2400	3.38	-0.07
HY1092	Malt extract agar	3250	3.51	0.30
HY1098	Petrifilm	27000	4.43	2.93
HY1462	DRBC agar	1900	3.28	-0.36
HY1496	Rose Bengal agar	2300	3.36	-0.13
HY1605	DRBC agar	2500	3.40	-0.02
HY1637	Dichloran 18 agar	470	2.67	-2.10
HY1666	Other	3070	3.49	0.23
HY1886	Other	1500	3.18	-0.66
HY1893	Other	1240	3.09	-0.89
HY2413	Other	2340	3.37	-0.11
HY2420	Other	1300	3.11	-0.84
HY2452	Other	2200	3.34	-0.18
HY2657	Petrifilm	1700	3.23	-0.50
HY2657	Other	1800	3.26	-0.43
HY2774	DRBC agar	1809	3.26	-0.43
HY2774	Dichloran 18 agar	1655	3.22	-0.54
HY2792	Petrifilm	<1		
HY2916	Other	1700	3.23	-0.50

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	3.41	0.03	0.35	N/A	2.71 to 4.11	94.4%	5.6%	0.0%
	cfu/mL	2550	N/A	N/A	N/A	509 to 12778	94.4%	5.6%	0.0%

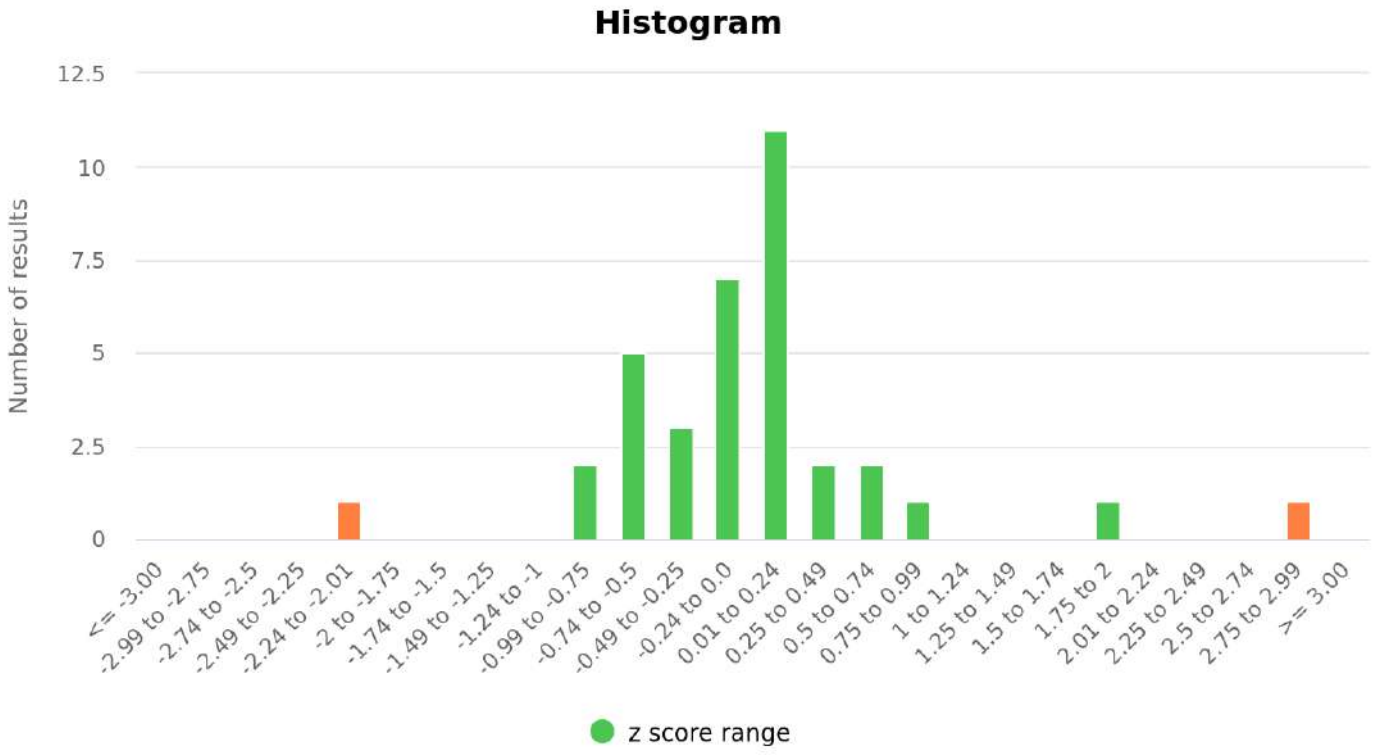
Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	37	1	3.41	3.41	0.28	0.14	2.67 to 4.43

Sample: 10 - Swab rinsate sample

Analyte: Yeast (Direct count)

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
	cfu/mL	37	1	N/A	N/A	N/A	N/A	470 to 27000

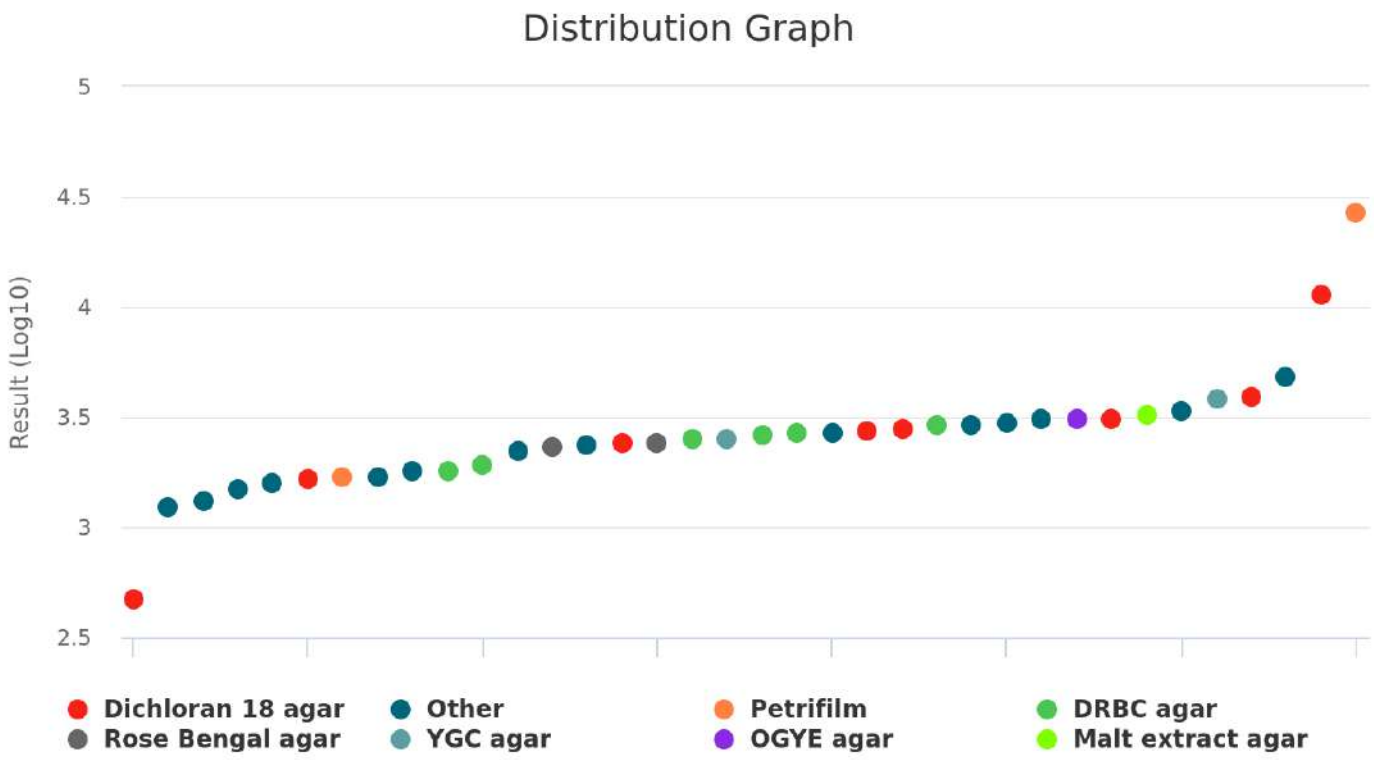
Histogram



Sample: 10 - Swab rinsate sample

Analyte: Yeast (Direct count)

Sample 10



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	6	0	16	Log10	3.41	0.060	3.26 to 3.46	100.0	0.0	0.0
Dichloran 18 agar	8	0	22	Log10	3.44	0.157	2.67 to 4.06	87.5	12.5	0.0
Malt extract agar	1	0	3	Log10	3.51	0.000	3.51 to 3.51	100.0	0.0	0.0
OGYE agar	1	0	3	Log10	3.49	0.000	3.49 to 3.49	100.0	0.0	0.0
Other	14	0	38	Log10	3.36	0.190	3.09 to 3.68	100.0	0.0	0.0
Petrifilm	3	1	8	Log10	3.83	0.890	3.23 to 4.43	50.0	50.0	0.0
Rose Bengal agar	2	0	5	Log10	3.37	0.014	3.36 to 3.38	100.0	0.0	0.0
YGC agar	2	0	5	Log10	3.49	0.135	3.40 to 3.58	100.0	0.0	0.0

Sample: 10 - Swab rinsate sample

Analyte: Mould (Direct count)

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0023	YGC agar	1000	3.00	1.03
HY0023	Dichloran 18 agar	800	2.90	0.75
HY0023	Other	600	2.78	0.40
HY0128	YGC agar	190	2.28	-1.03
HY0132	Other	700	2.85	0.59
HY0154	Other	280	2.45	-0.55
HY0376	Dichloran 18 agar	1550	3.19	1.57
HY0422	DRBC agar	436	2.64	0.00
HY0422	Dichloran 18 agar	373	2.57	-0.19
HY0517	DRBC agar	500	2.70	0.17
HY0572	Other	630	2.80	0.46
HY0609	DRBC agar	510	2.71	0.19
HY0609	Dichloran 18 agar	360	2.56	-0.24
HY0683	Dichloran 18 agar	270	2.43	-0.59
HY0714	OGYE agar	480	2.68	0.12
HY0803	Dichloran 18 agar	300	2.48	-0.46
HY0806	Other	280	2.45	-0.55
HY0896	Other	680	2.83	0.55
HY1028	Rose Bengal agar	360	2.56	-0.24
HY1092	Malt extract agar	600	2.78	0.40
HY1098	Petrifilm	5000	3.70	3.03
HY1462	DRBC agar	260	2.41	-0.64
HY1496	Rose Bengal agar	280	2.45	-0.55
HY1605	DRBC agar	500	2.70	0.17
HY1637	Dichloran 18 agar	220	2.34	-0.85
HY1666	Other	640	2.81	0.48
HY1886	Other	450	2.65	0.04
HY1893	Other	110	2.04	-1.71
HY2413	Other	220	2.34	-0.85
HY2420	Other	400	2.60	-0.11
HY2452	Other	180	2.26	-1.10
HY2657	Petrifilm	1000	3.00	1.03
HY2657	Other	1000	3.00	1.03
HY2774	DRBC agar	273	2.44	-0.58
HY2774	Dichloran 18 agar	232	2.37	-0.78
HY2792	Petrifilm	<1		
HY2916	Other	<1		

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.64	0.06	0.35	N/A	1.94 to 3.34	97.1%	0.0%	2.9%
	cfu/mL	436	N/A	N/A	N/A	87 to 2185	97.1%	0.0%	2.9%

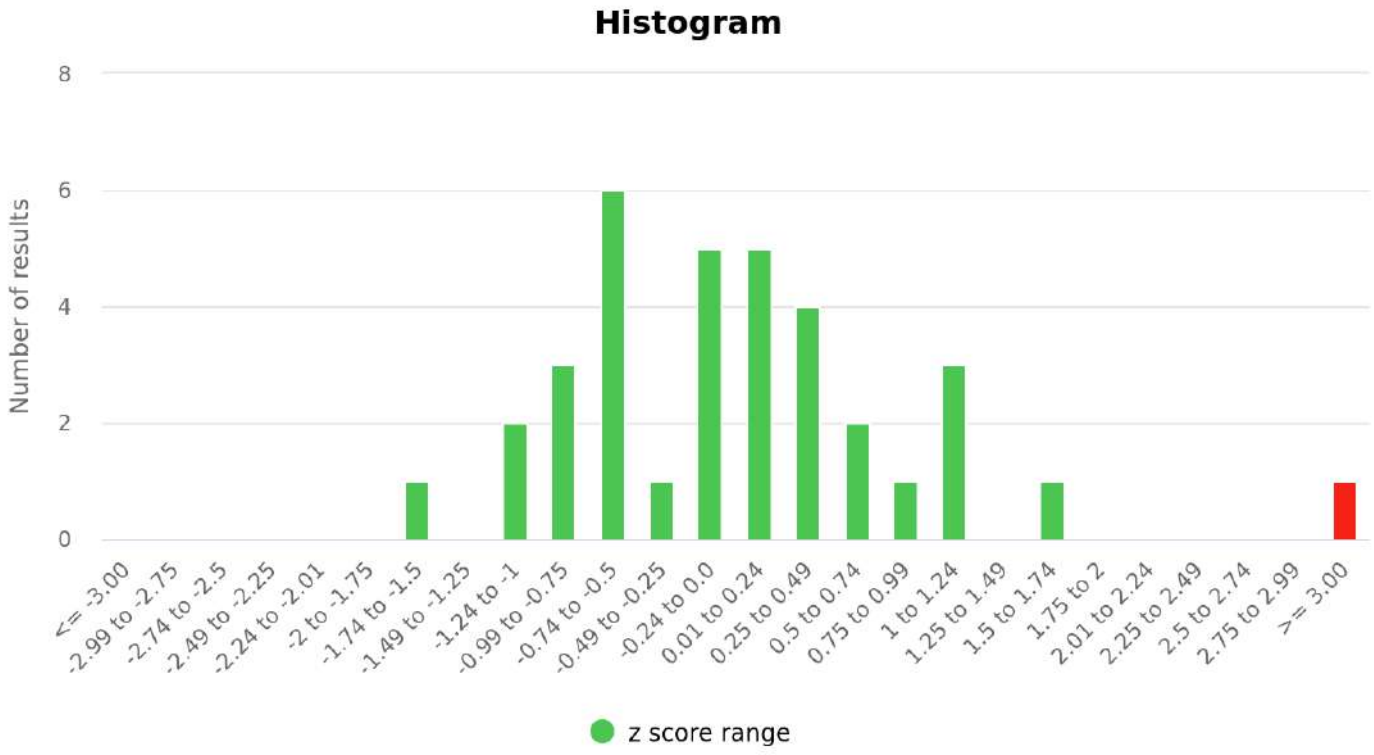
Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	37	2	2.65	2.64	0.31	0.29	2.04 to 3.70

Sample: 10 - Swab rinsate sample

Analyte: Mould (Direct count)

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
	cfu/mL	37	2	N/A	N/A	N/A	N/A	110 to 5000

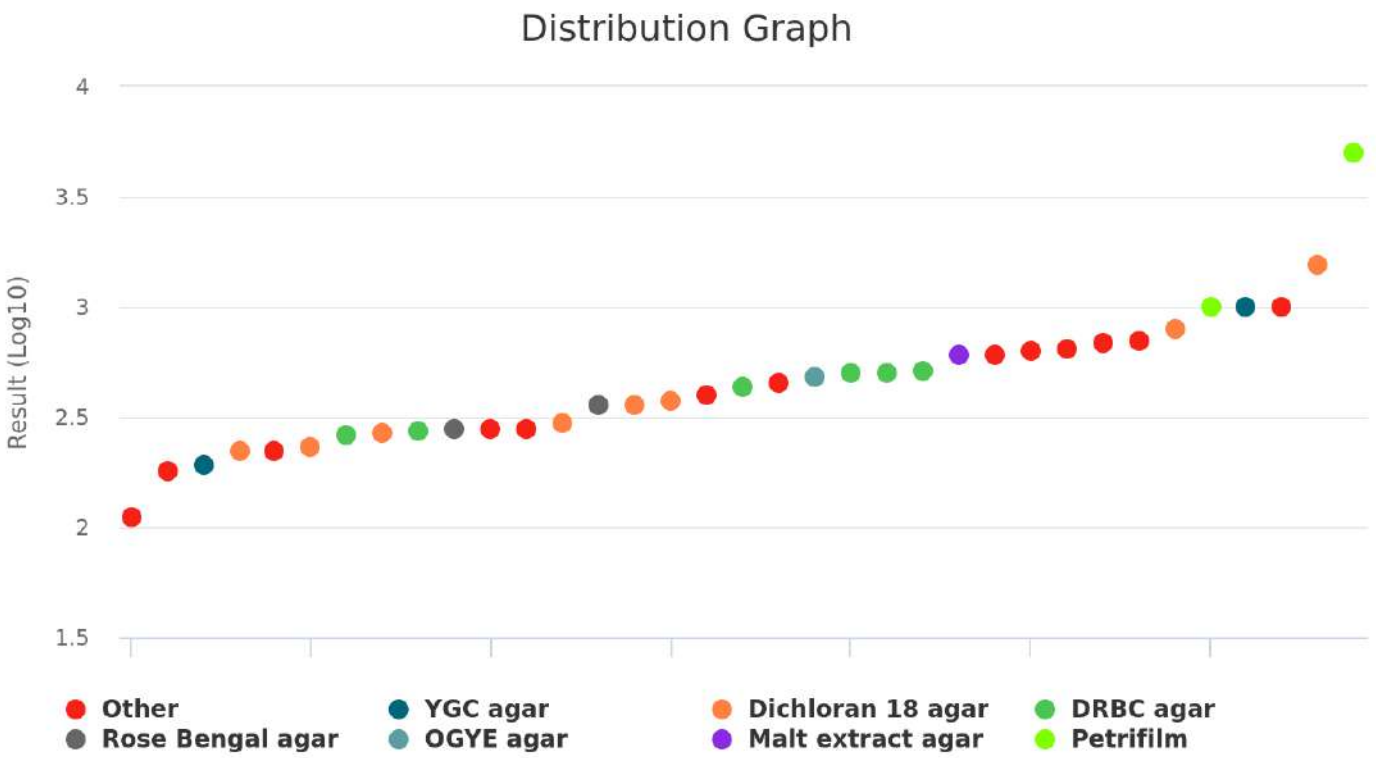
Histogram



Sample: 10 - Swab rinsate sample

Analyte: Mould (Direct count)

Sample 10



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	6	0	16	Log10	2.67	0.050	2.41 to 2.71	100.0	0.0	0.0
Dichloran 18 agar	8	0	22	Log10	2.52	0.175	2.34 to 3.19	100.0	0.0	0.0
Malt extract agar	1	0	3	Log10	2.78	0.000	2.78 to 2.78	100.0	0.0	0.0
OGYE agar	1	0	3	Log10	2.68	0.000	2.68 to 2.68	100.0	0.0	0.0
Other	14	1	38	Log10	2.65	0.285	2.04 to 3.00	100.0	0.0	0.0
Petrifilm	3	1	8	Log10	3.35	0.518	3.00 to 3.70	50.0	0.0	50.0
Rose Bengal agar	2	0	5	Log10	2.50	0.081	2.45 to 2.56	100.0	0.0	0.0
YGC agar	2	0	5	Log10	2.64	0.535	2.28 to 3.00	100.0	0.0	0.0

Sample: 10 - Swab rinsate sample

Analyte: Yeast and Mould (Direct count)

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0110	YGC agar	49000	4.69	3.64
HY0128	YGC agar	2500	3.40	-0.05
HY0132	Other	5455	3.74	0.92
HY0422	DRBC agar	3036	3.48	0.19
HY0422	Dichloran 18 agar	11773	4.07	1.87
HY0436	DRBC agar	7800	3.89	1.36
HY0572	Other	3545	3.55	0.38
HY0609	DRBC agar	3400	3.53	0.33
HY0609	Dichloran 18 agar	3500	3.54	0.37
HY0803	Dichloran 18 agar	3100	3.49	0.22
HY0806	Other	3900	3.59	0.50
HY0896	Other	3400	3.53	0.33
HY1027	Other	1000	3.00	-1.19
HY1092	Malt extract agar	3850	3.59	0.49
HY1098	Petrifilm	32000	4.51	3.11
HY1462	DRBC agar	2100	3.32	-0.27
HY1496	Rose Bengal agar	2600	3.41	0.00
HY1605	DRBC agar	3000	3.48	0.18
HY1637	Dichloran 18 agar	690	2.84	-1.65
HY1666	Other	3710	3.57	0.44
HY1886	Other	2000	3.30	-0.33
HY1893	Other	1400	3.15	-0.77
HY1957	Petrifilm	1200	3.08	-0.96
HY2413	Other	2560	3.41	-0.02
HY2452	Other	2380	3.38	-0.11
HY2657	Petrifilm	2500	3.40	-0.05
HY2657	Other	2600	3.41	0.00
HY2774	DRBC agar	2082	3.32	-0.28
HY2774	Dichloran 18 agar	1886	3.28	-0.40
HY2792	Petrifilm	<1		
HY2793	Petrifilm	>250		
HY2883	Petrifilm	445	2.65	-2.19
HY2916	Other	1700	3.23	-0.53

Quantitative Statistics

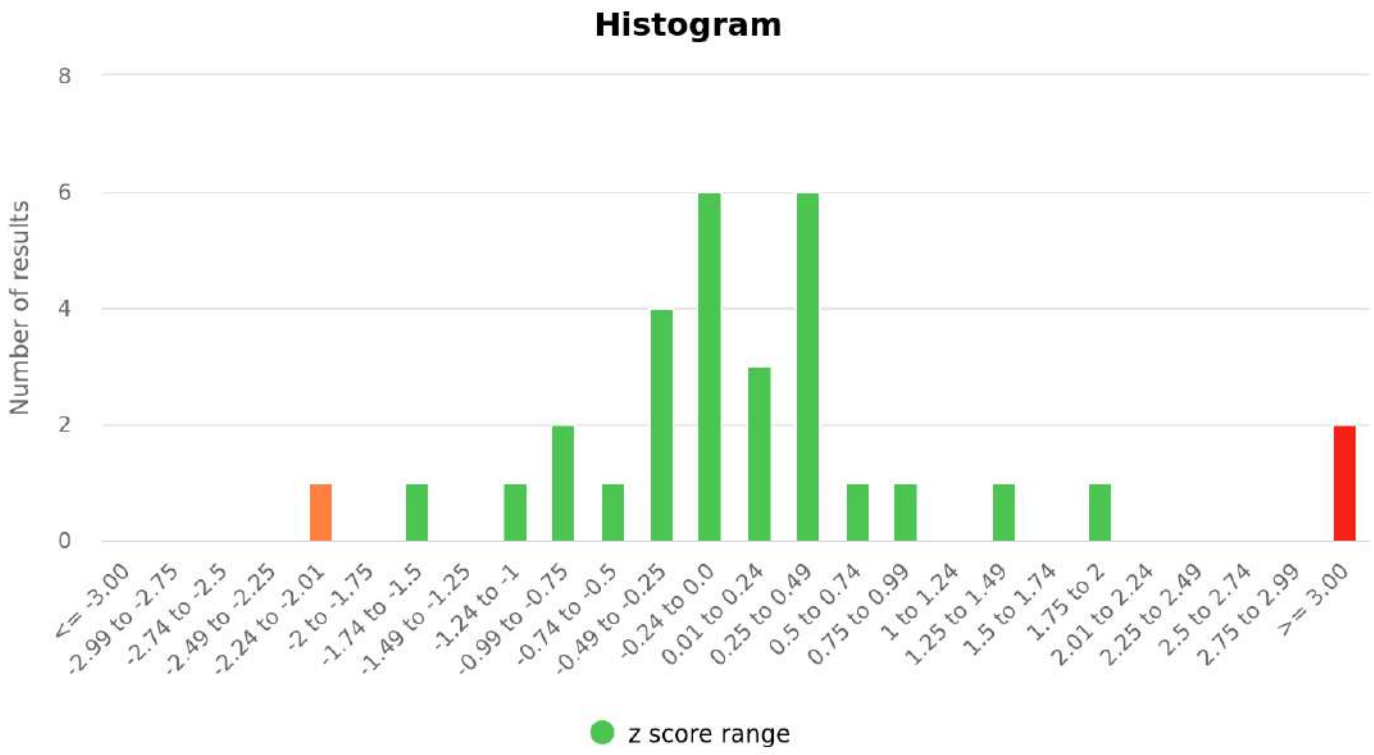
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	3.41	0.04	0.35	N/A	2.71 to 4.11	90.3%	3.2%	6.5%
	cfu/mL	2600	N/A	N/A	N/A	519 to 13031	90.3%	3.2%	6.5%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	33	2	3.48	3.41	0.41	0.20	2.65 to 4.69
	cfu/mL	33	2	N/A	N/A	N/A	N/A	445 to 49000

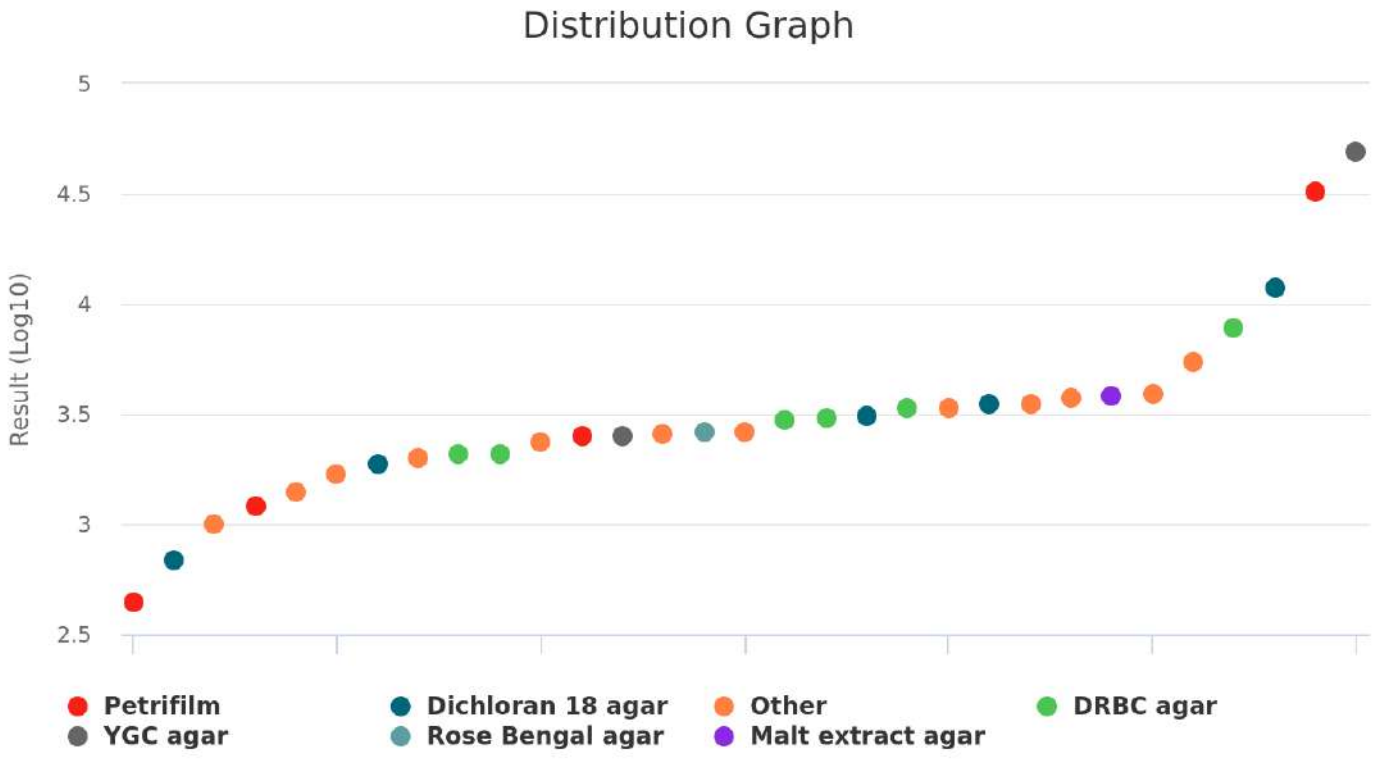
Sample: 10 - Swab rinsate sample

Analyte: Yeast and Mould (Direct count)

Histogram



Sample 10



Sample: 10 - Swab rinsate sample

Analyte: Yeast and Mould (Direct count)

Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
DRBC agar	6	0	18	Log10	3.48	0.155	3.32 to 3.89	100.0	0.0	0.0
Dichloran 18 agar	5	0	15	Log10	3.49	0.320	2.84 to 4.07	100.0	0.0	0.0
Malt extract agar	1	0	3	Log10	3.59	0.000	3.59 to 3.59	100.0	0.0	0.0
Other	12	0	36	Log10	3.41	0.219	3.00 to 3.74	100.0	0.0	0.0
Petrifilm	6	2	18	Log10	3.24	0.556	2.65 to 4.51	50.0	25.0	25.0
Rose Bengal agar	1	0	3	Log10	3.41	0.000	3.41 to 3.41	100.0	0.0	0.0
YGC agar	2	0	6	Log10	4.04	0.958	3.40 to 4.69	50.0	0.0	50.0

Sample: 10 - Swab rinsate sample

Analyte: Enterobacteriaceae (Direct count)

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0023	VRBGA PP 37	530	2.72	0.91
HY0110	VRBGA PP 37	4800	3.68	3.64
HY0123	VRBGA PP 37	340	2.53	0.36
HY0128	VRBGA PP 37	310	2.49	0.24
HY0132	Other	564	2.75	0.99
HY0154	Petrifilm	180	2.26	-0.43
HY0376	VRBGA PP 30	310	2.49	0.24
HY0422	VRBGA PP 37	411	2.61	0.59
HY0517	Other	230	2.36	-0.13
HY0572	Other	270	2.43	0.07
HY0604	Other	330	2.52	0.32
HY0609	VRBGA PP 37	130	2.11	-0.84
HY0628	Petrifilm	110	2.04	-1.04
HY0683	Other	432	2.64	0.65
HY0714	VRBGA PP 37	260	2.41	0.02
HY0803	VRBGA PP 37	327	2.51	0.31
HY0806	VRBGA PP 37	160	2.20	-0.58
HY0851	VRBGA PP 37	330	2.52	0.32
HY0896	VRBGA PP 37	300	2.48	0.20
HY0896	Other	240	2.38	-0.07
HY1027	Other	64	1.81	-1.72
HY1028	Other	28	1.45	-2.74
HY1092	Other	520	2.72	0.88
HY1098	VRBGA PP 37	3100	3.49	3.10
HY1444	VRBGA PP 37	160	2.20	-0.58
HY1462	VRBGA PP 37	310	2.49	0.24
HY1489	VRBGA PP 37	3500	3.54	3.25
HY1496	VRBGA PP 37	300	2.48	0.20
HY1605	VRBGA PP 37	100	2.00	-1.16
HY1637	Other	280	2.45	0.12
HY1666	VRBGA PP 37	200	2.30	-0.30
HY1893	Other	160	2.20	-0.58
HY1957	Petrifilm	30	1.48	-2.66
HY2413	Other	250	2.40	-0.02
HY2420	VRBGA PP 37	210	2.32	-0.24
HY2472	Other	190	2.28	-0.36
HY2548	Petrifilm	230	2.36	-0.13
HY2657	Petrifilm	300	2.48	0.20
HY2668	VRBGA PP 37	250	2.40	-0.02
HY2774	VRBGA PP 37	150	2.18	-0.66
HY2792	Petrifilm	73	1.86	-1.55
HY2793	Petrifilm	73	1.86	-1.55
HY2883	Petrifilm	33	1.52	-2.54
HY2885	VRBGA PP 37	330	2.52	0.32
HY2890	VRBGA PP 37	4100	3.61	3.45
HY2916	Petrifilm	80	1.90	-1.44

Sample: 10 - Swab rinsate sample

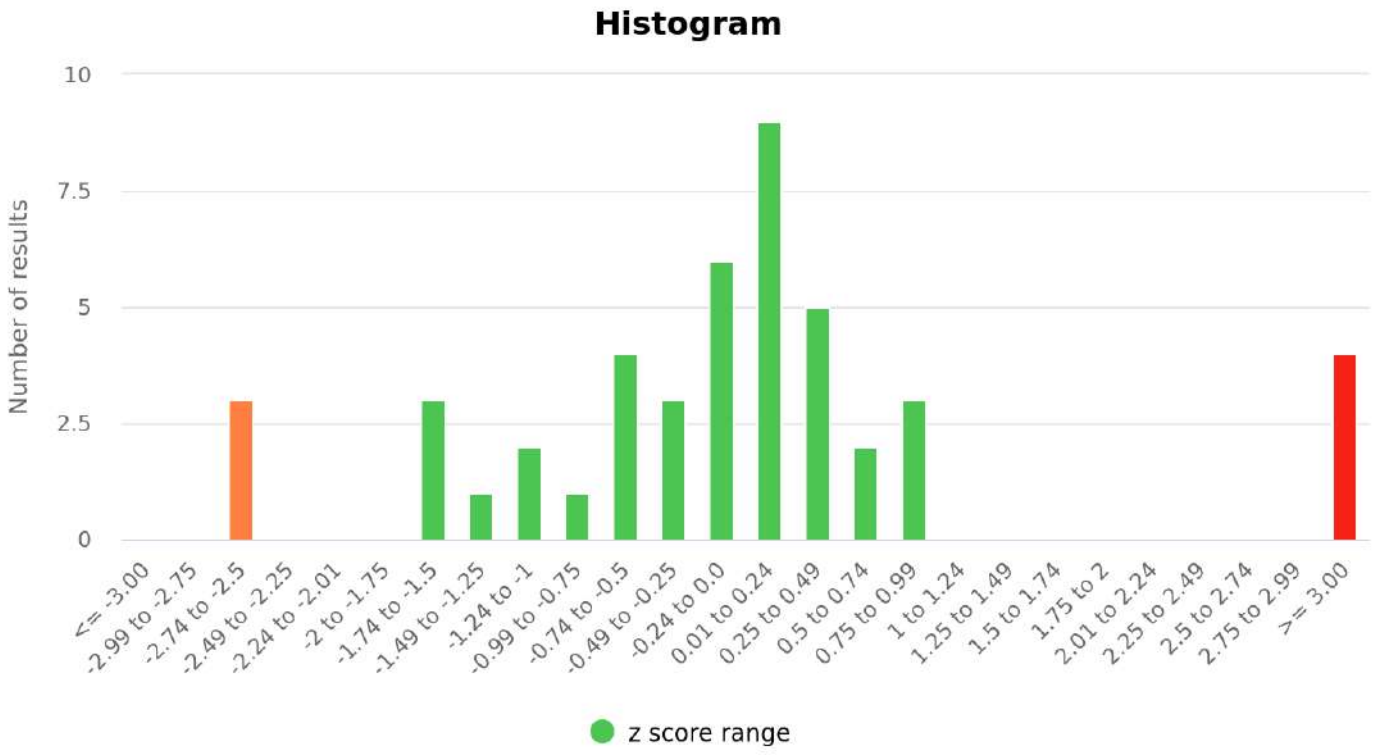
Analyte: Enterobacteriaceae (Direct count)

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.41	0.05	0.35	N/A	1.71 to 3.11	84.8%	6.5%	8.7%
	cfu/mL	255	N/A	N/A	N/A	51 to 1278	84.8%	6.5%	8.7%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	46	0	2.40	2.41	0.48	0.26	1.45 to 3.68
	cfu/mL	46	0	N/A	N/A	N/A	N/A	28 to 4800

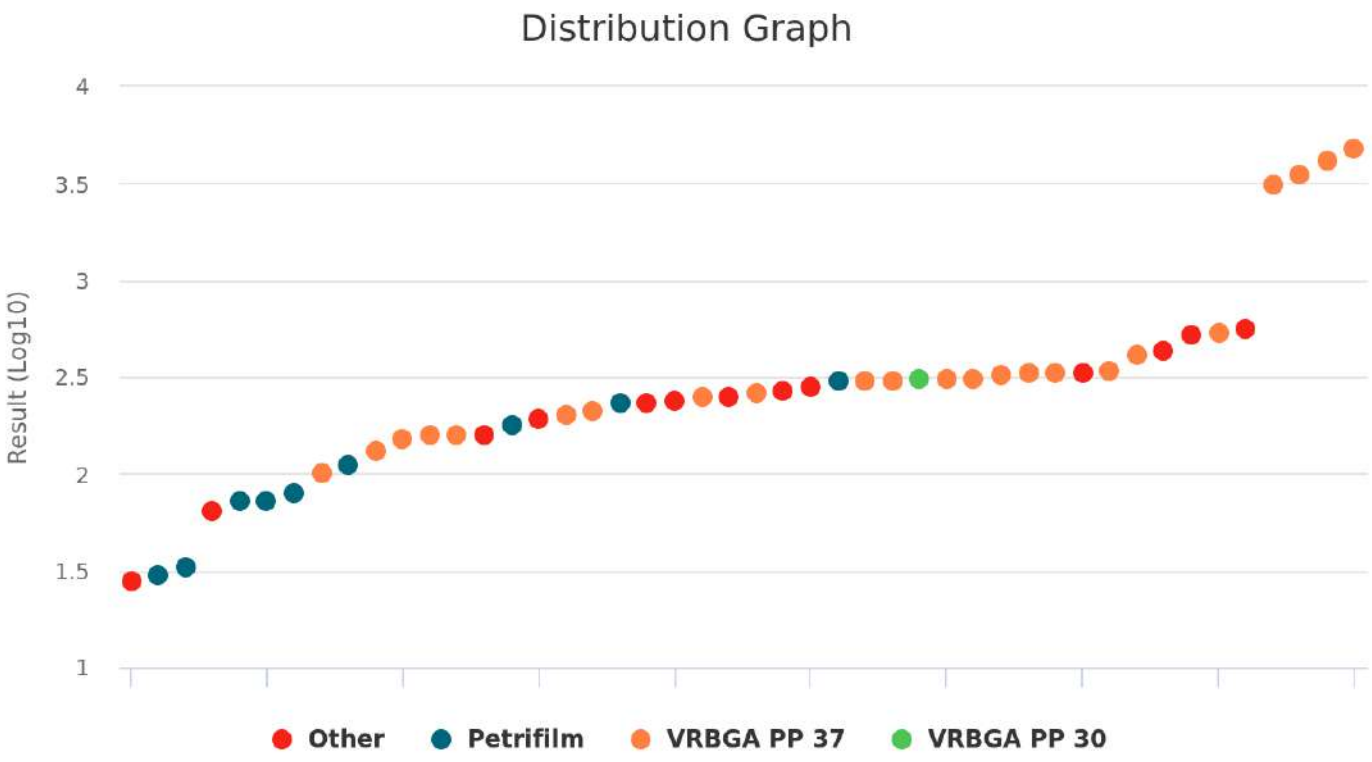
Histogram



Sample: 10 - Swab rinsate sample

Analyte: Enterobacteriaceae (Direct count)

Sample 10



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
Other	13	0	28	Log10	2.40	0.179	1.45 to 2.75	92.3	7.7	0.0
Petrifilm	9	0	20	Log10	1.90	0.522	1.48 to 2.48	77.8	22.2	0.0
VRBGA PP 30	1	0	2	Log10	2.49	0.000	2.49 to 2.49	100.0	0.0	0.0
VRBGA PP 37	23	0	50	Log10	2.49	0.251	2.00 to 3.68	82.6	0.0	17.4

Sample: 10 - Swab rinsate sample

Analyte: Coliforms (Direct count)

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0023	VRBA PP 37	420	2.62	0.90
HY0123	VRBA PP 37	350	2.54	0.69
HY0128	VRBA PP 37	190	2.28	-0.03
HY0132	VRBA PP 30	427	2.63	0.92
HY0422	VRBA PP 37	345	2.54	0.67
HY0436	Other	161	2.21	-0.22
HY0572	Other	270	2.43	0.38
HY0604	Other	430	2.63	0.93
HY0609	Petrifilm	110	2.04	-0.67
HY0609	VRBA PP 37	140	2.15	-0.39
HY0714	VRBA PP 37	200	2.30	0.03
HY0803	VRBA PP 37	336	2.53	0.64
HY0806	VRBA PP 30	130	2.11	-0.48
HY0896	VRBA PP 37	340	2.53	0.65
HY1027	MPN	110	2.04	-0.67
HY1027	Other	69	1.84	-1.22
HY1028	Petrifilm	27	1.43	-2.32
HY1092	Other	520	2.72	1.15
HY1098	VRBA PP 37	1900	3.28	2.67
HY1462	VRBA PP 37	40	1.60	-1.86
HY1489	VRBA PP 37	3000	3.48	3.21
HY1496	Other	330	2.52	0.62
HY1605	Other	100	2.00	-0.78
HY1637	Other	280	2.45	0.43
HY1666	Other	150	2.18	-0.31
HY1893	Other	210	2.32	0.09
HY1923	Other	<10		
HY1924	Other	<10		
HY1925	Petrifilm	15	1.18	-3.01
HY1957	Petrifilm	25	1.40	-2.41
HY2413	Other	40	1.60	-1.86
HY2420	VRBA PP 37	170	2.23	-0.16
HY2452	Other	210	2.32	0.09
HY2472	Other	530	2.72	1.17
HY2548	Petrifilm	130	2.11	-0.48
HY2657	Petrifilm	280	2.45	0.43
HY2774	VRBA PP 37	203	2.31	0.05
HY2784	Petrifilm	82	1.91	-1.02
HY2792	Petrifilm	103	2.01	-0.75
HY2793	Petrifilm	53	1.72	-1.53
HY2883	Petrifilm	39	1.59	-1.89
HY2885	VRBA PP 30	250	2.40	0.29
HY2890	VRBA PP 37	3000	3.48	3.21
HY2916	Petrifilm	47	1.67	-1.67

Sample: 10 - Swab rinsate sample

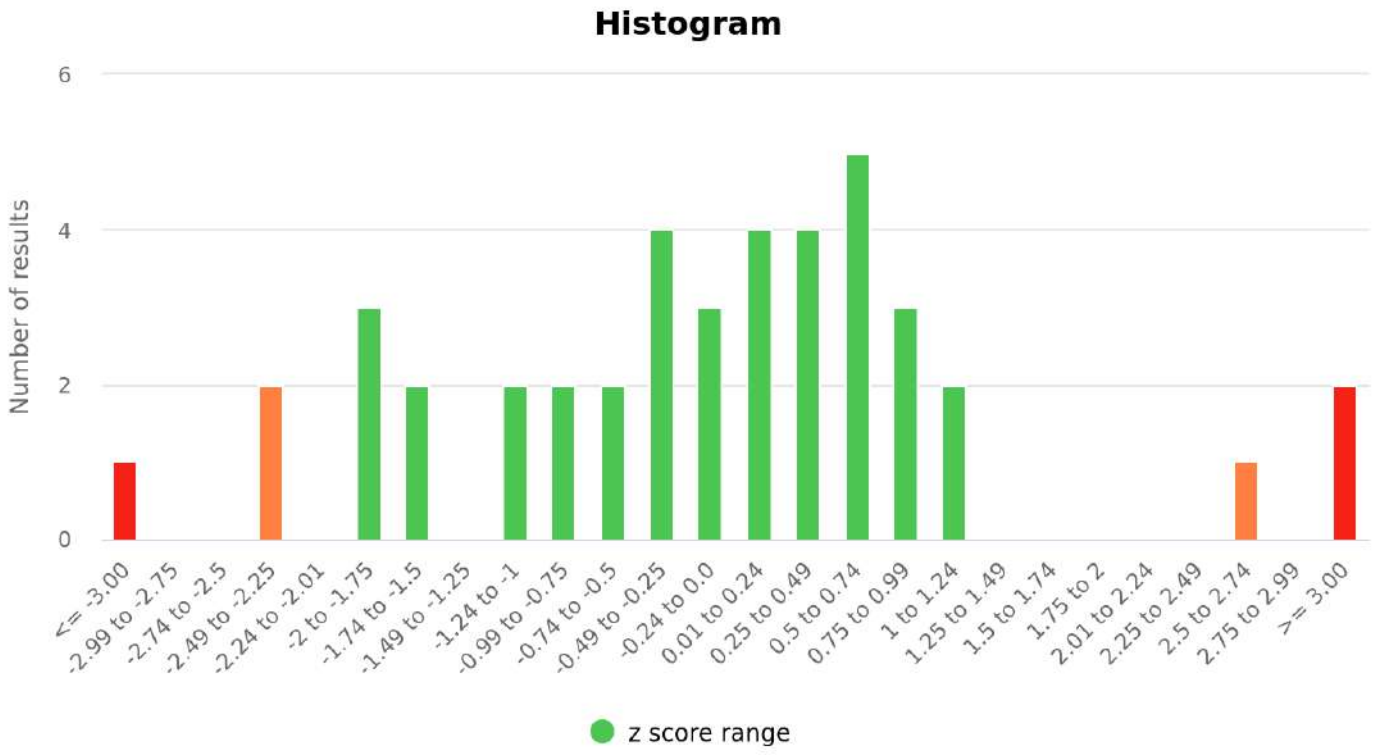
Analyte: Coliforms (Direct count)

Quantitative Statistics

Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	2.29	0.07	0.37	N/A	1.55 to 3.03	85.7%	7.1%	7.1%
	cfu/mL	195	N/A	N/A	N/A	35 to 1071	85.7%	7.1%	7.1%

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	44	2	2.25	2.29	0.51	0.37	1.18 to 3.48
	cfu/mL	44	2	N/A	N/A	N/A	N/A	15 to 3000

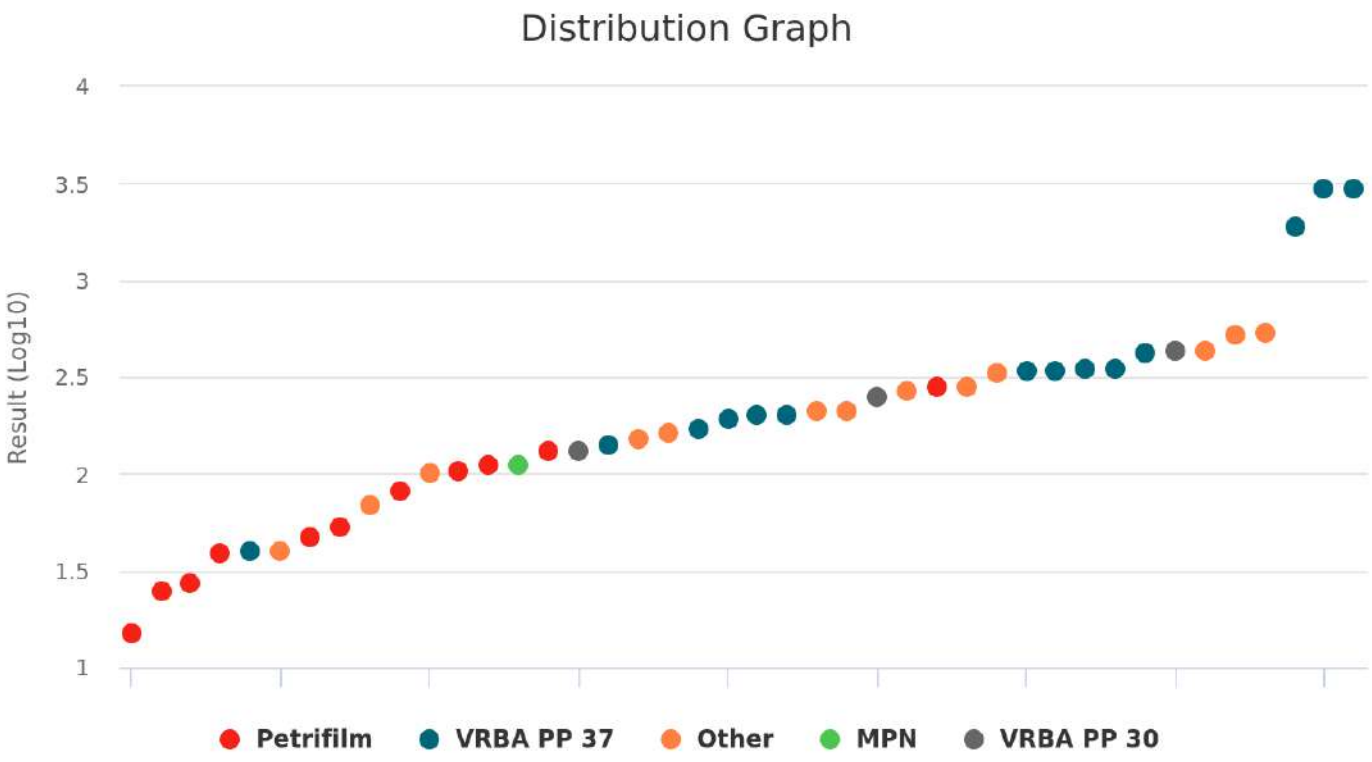
Histogram



Sample: 10 - Swab rinsate sample

Analyte: Coliforms (Direct count)

Sample 10



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	1	0	2	Log10	2.04	0.000	2.04 to 2.04	100.0	0.0	0.0
Other	15	2	34	Log10	2.32	0.291	1.60 to 2.72	100.0	0.0	0.0
Petrifilm	11	0	25	Log10	1.72	0.434	1.18 to 2.45	72.7	18.2	9.1
VRBA PP 30	3	0	7	Log10	2.40	0.345	2.11 to 2.63	100.0	0.0	0.0
VRBA PP 37	14	0	32	Log10	2.53	0.354	1.60 to 3.48	78.6	7.1	14.3

Sample: 10 - Swab rinsate sample

Analyte: Escherichia coli (Direct count)

Lab ID	Method	Result (cfu/mL)	Log_{10}	z score
HY0023	TBX PP 37-44	26	1.41	-0.42
HY0110	TBX PP 37-44	1110	3.05	3.21
HY0128	TBX PP 37-44	100	2.00	0.88
HY0132	TBX PP 37-44	58	1.76	0.36
HY0154	Petrifilm	15	1.18	-0.95
HY0376	Other	35	1.54	-0.13
HY0422	TBX PP 37-44	16	1.20	-0.88
HY0436	TBX PP 37-44	161	2.21	1.34
HY0572	MPN	60	1.78	0.39
HY0604	TBX PP 37-44	430	2.63	2.29
HY0609	Petrifilm	16	1.20	-0.88
HY0609	TBX PP 37-44	20	1.30	-0.67
HY0714	TBX PP 37-44	80	1.90	0.67
HY0803	TBX PP 37-44	52	1.72	0.25
HY0806	Other	25	1.40	-0.45
HY0896	TBX PP 37-44	60	1.78	0.39
HY0896	Other	60	1.78	0.39
HY1027	MPN	<3		
HY1027	Other	<1		
HY1028	TBX PP 37-44	4	0.60	-2.22
HY1092	MPN	50	1.70	0.22
HY1098	Petrifilm	<10		
HY1462	TBX PP 37-44	33	1.52	-0.19
HY1489	TBX PP 37-44	500	2.70	2.44
HY1496	Other	40	1.60	0.00
HY1605	TBX PP 37-44	50	1.70	0.22
HY1637	TBX PP 37-44	50	1.70	0.22
HY1666	Other	22	1.34	-0.58
HY1893	Other	20	1.30	-0.67
HY1957	Petrifilm	2	0.30	-2.89
HY2413	Other	40	1.60	0.00
HY2420	TBX PP 37-44	28	1.45	-0.34
HY2452	TBX PP 37-44	80	1.90	0.67
HY2548	Petrifilm	30	1.48	-0.28
HY2657	Petrifilm	130	2.11	1.14
HY2784	Petrifilm	15	1.18	-0.95
HY2793	Petrifilm	6	0.78	-1.83
HY2883	Petrifilm	6	0.78	-1.83
HY2885	TBX PP 37-44	63	1.80	0.44
HY2890	MPN	460	2.66	2.36
HY2916	Petrifilm	9	0.95	-1.44

Quantitative Statistics

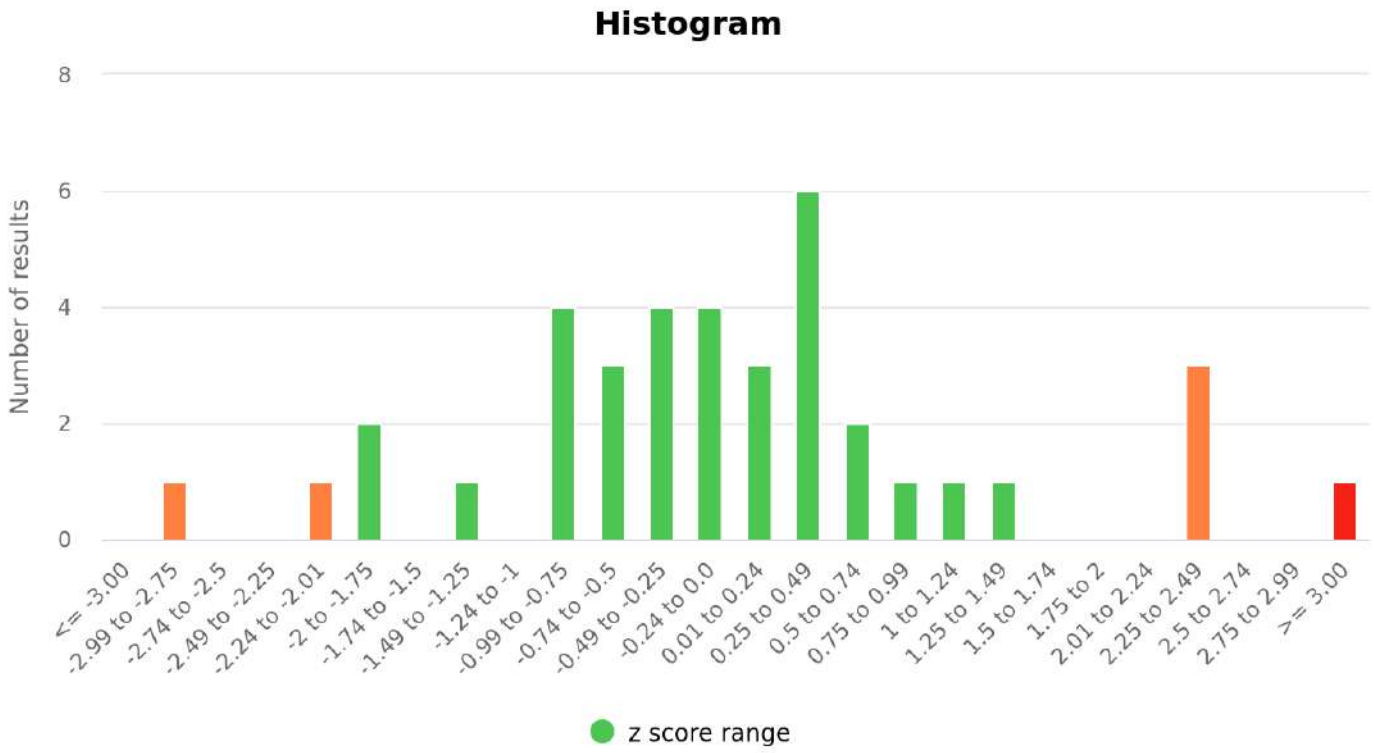
Assessment Statistics	Unit	Assigned Value	Uncertainty of Assigned Value	SDPA	Exp.SDPA	Satisfactory Range	Satisfactory %	Questionable %	Unsatisfactory %
ALL	Log_{10}	1.60	0.09	0.45	N/A	0.70 to 2.50	84.2%	13.2%	2.6%
	cfu/mL	40	N/A	N/A	N/A	5 to 318	84.2%	13.2%	2.6%

Sample: 10 - Swab rinsate sample

Analyte: Escherichia coli (Direct count)

Result Statistics	Unit	Number of Results	Number of Excluded Results	Mean	Median	Standard Deviation	Robust Standard Deviation	Result Range
ALL	Log_{10}	41	3	1.61	1.60	0.57	0.45	0.30 to 3.05
	cfu/mL	41	3	N/A	N/A	N/A	N/A	2 to 1110

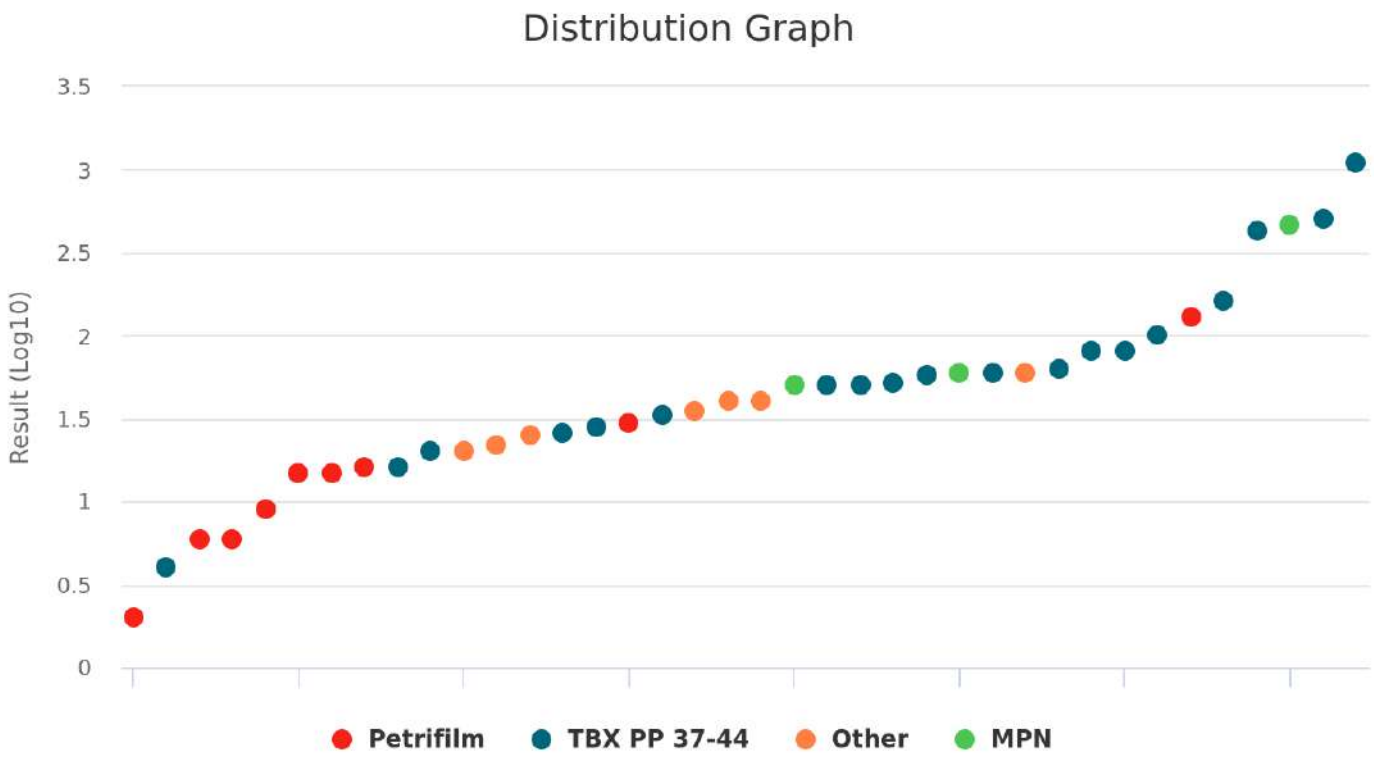
Histogram



Sample: 10 - Swab rinsate sample

Analyte: Escherichia coli (Direct count)

Sample 10



Quantitative Methodology Summary

Method	Results			Unit	Median	Robust SD	Range	Sat %	Questionable %	Unsat %
	Number	Excluded	% of Total							
MPN	4	1	10	Log10	1.78	0.117	1.70 to 2.66	66.7	33.3	0.0
Other	8	1	20	Log10	1.54	0.217	1.30 to 1.78	100.0	0.0	0.0
Petrifilm	10	1	24	Log10	1.18	0.446	0.30 to 2.11	88.9	11.1	0.0
TBX PP 37-44	19	0	46	Log10	1.76	0.363	0.60 to 3.05	78.9	15.8	5.3

Sample: 11 - Swab rinsate sample

Analyte: Listeria species (Direct Detection)

Lab ID	Method	Result
HY0132	Enrichment/culture	Detected
HY0150	Enrichment/culture	Detected
HY0154	PCR	Detected
HY0154	Other	Detected
HY0609	Enrichment/culture	Detected
HY0651	Enrichment/culture	Detected
HY0722	PCR	Detected
HY0722	Other	Detected
HY1028	Enrichment/culture	Detected
HY1092	Enrichment/culture	Detected
HY1305	Enrichment/culture	Detected
HY1427	Enrichment/culture	Detected
HY1533	Enrichment/culture	Detected
HY1675	Other	Not Detected
HY1832	Other	Detected
HY1893	PCR	Detected
HY1912	Rapid L.mono	Detected
HY1923	Other	Detected
HY1924	Other	Detected
HY2548	Other	Detected
HY2686	Enrichment/culture	Detected
HY2774	Enrichment/culture	Detected
HY2776	Other	Detected
HY2813	PCR	Detected
HY2827	Other	Detected

Qualitative Assessment Statistics

Assessment Statistics	Result
Assigned Value	Detected
Number of Results	25
Satisfactory performance %	96.0%
Unsatisfactory performance %	4.0%

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	11
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Other	Count	9
	% Satisfactory	88.9
	% Unsatisfactory	11.1
PCR	Count	4
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Rapid L.mono	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0

Sample: 11 - Swab rinsate sample

Analyte: Listeria monocytogenes (Direct Detection)

Lab ID	Method	Result
HY0132	Other	Detected
HY0150	Enrichment/culture	Detected
HY0154	PCR	Detected
HY0609	Enrichment/culture	Detected
HY0651	Enrichment/culture	Detected
HY0722	PCR	Detected
HY0722	Other	Detected
HY0806	Other	Detected
HY0845	Enrichment/culture	Detected
HY1028	Enrichment/culture	Detected
HY1092	Enrichment/culture	Detected
HY1305	Enrichment/culture	Detected
HY1427	Enrichment/culture	Detected
HY1533	Enrichment/culture	Detected
HY1537	Enrichment/culture	Detected
HY1674	Other	Detected
HY1675	Rapid L.mono	Not Detected
HY1675	Other	Not Detected
HY1893	PCR	Detected
HY1925	Other	Detected
HY2472	Other	Detected
HY2548	PCR	Detected
HY2686	Enrichment/culture	Detected
HY2774	Enrichment/culture	Detected
HY2776	Other	Detected
HY2813	PCR	Detected
HY2827	Other	Detected
HY2879	Enrichment/culture	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	28
	Satisfactory performance %	92.9%
	Unsatisfactory performance %	7.1%

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	13
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Other	Count	9
	% Satisfactory	88.9
	% Unsatisfactory	11.1
PCR	Count	5
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Rapid L.mono	Count	1
	% Satisfactory	0.0

Sample: 11 - Swab rinsate sample

Analyte: Listeria monocytogenes (Direct Detection)

Qualitative Methodology Summary

Methodology Summary		Result
	% Unsatisfactory	100.0

Sample: 11 - Swab rinsate sample

Analyte: Salmonella species (Direct Detection)

Lab ID	Method	Result
HY0132	Other	Detected
HY0154	VIDAS	Detected
HY0154	PCR	Detected
HY0609	Enrichment/culture	Detected
HY0651	Enrichment/culture	Detected
HY0722	Enrichment/culture	Detected
HY0722	VIDAS	Detected
HY0806	VIDAS	Detected
HY0845	Enrichment/culture	Detected
HY1028	Enrichment/culture	Detected
HY1092	Other	Detected
HY1305	Enrichment/culture	Not Detected
HY1427	Enrichment/culture	Detected
HY1533	Enrichment/culture	Detected
HY1537	Enrichment/culture	Detected
HY1674	VIDAS	Detected
HY1832	Other	Detected
HY1893	PCR	Detected
HY1912	Enrichment/culture	Detected
HY1923	Other	Detected
HY1924	Other	Detected
HY2339	Enrichment/culture	Detected
HY2472	VIDAS	Not Detected
HY2548	Other	Detected
HY2657	Other	Detected
HY2686	Enrichment/culture	Detected
HY2774	Enrichment/culture	Detected
HY2776	Other	Detected
HY2813	PCR	Detected
HY2879	Enrichment/culture	Detected
HY2902	Enrichment/culture	Detected
HY2922	PCR	Not Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	32
	Satisfactory performance %	90.6%
	Unsatisfactory performance %	9.4%

Qualitative Methodology Summary

Methodology Summary		Result
Enrichment/culture	Count	15
	% Satisfactory	93.3
	% Unsatisfactory	6.7
Other	Count	8
	% Satisfactory	100.0
	% Unsatisfactory	0.0
PCR	Count	4

Sample: 11 - Swab rinsate sample

Analyte: Salmonella species (Direct Detection)

Qualitative Methodology Summary

Methodology Summary		Result
	% Satisfactory	75.0
	% Unsatisfactory	25.0
VIDAS	Count	5
	% Satisfactory	80.0
	% Unsatisfactory	20.0

Sample: 11 - Swab rinsate sample

Analyte: Escherichia coli O157

Lab ID	Method	Result
HY0651	Enrichment/culture	Not Detected
HY1092	Enrichment/culture	Detected
HY1893	PCR	Detected
HY2776	3M Molecular Detection System	Detected
HY2813	BACGene	Detected
HY2813	DuPont BAX	Detected

Qualitative Assessment Statistics

Assessment Statistics		Result
	Assigned Value	Detected
	Number of Results	6
	Satisfactory performance %	83.3%
	Unsatisfactory performance %	16.7%

Qualitative Methodology Summary

Methodology Summary		Result
3M Molecular Detection System	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0
BACGene	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0
DuPont BAX	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0
Enrichment/culture	Count	2
	% Satisfactory	50.0
	% Unsatisfactory	50.0
PCR	Count	1
	% Satisfactory	100.0
	% Unsatisfactory	0.0