

VET FOOD AGRO DIAGNOSTICS (M) SDN BHD

200101024963 (560721-X)

Achieved **EXCELLENT & GOOD** Z-Scores for

IFM 20P3NP Food Non-Pathogens Proficiency Testing 2020

Total Plate Count

Total Anaerobic Count

Yeast Count

Mould Count

***Enterobacteriaceae* Count**

Coliform Count

Thermotolerant (Faecal) Coliform

***E. coli* Count**

***Bacillus cereus* Count**

Lactic Acid Bacteria Count

by Spread Plate, Pour Plate & Petrifilm Method

Interpretation of Z-scores		
+3	X	Outlier
+2	✓	Fair
+1	✓	Good
(Median) 0	◇	Excellent
-1	✓	Good
-2	✓	Fair
-3	X	Outlier

A Z-score is a numerical measurement that describes a value's relationship to the mean of a group of values.

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant Part01	Participant Id 204712	Result Name KAM							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (A) Soup Mix									
Bacillus cereus count (cfu/g) by method: Spread	1300		3.1139	3.0792	0.2427		0.1432	<input type="checkbox"/>	
Coliform Count (cfu/g) by method: Pour	540		2.7324	2.8976	0.3024		-0.5464	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Pour	540		2.7324	2.8865	0.3257		-0.4732	<input type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Pour	560		2.7482	2.8976	0.3109		-0.4807	<input type="checkbox"/>	
Lactic acid bacteria Count (cfu/g) by method: Pour	420							<input type="checkbox"/>	
Mould Count (cfu/g) by method: Spread	650		2.8129	2.7782	0.1802		0.1929	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Pour	21000		4.3222	4.1761	0.2195		0.6658	<input type="checkbox"/>	
Thermotolerant (Faecal) Coliform Count (cfu/g) by method: Pour	560		2.7482	2.9294	0.3024		-0.5993	<input type="checkbox"/>	
Total Anaerobic Count (cfu/g) by method: Pour	2000		3.3010	3.4150	0.2012		-0.5662	<input type="checkbox"/>	
Yeast Count (cfu/g) by method: Spread	1500		3.1761	3.0414	0.3173		0.4245	<input type="checkbox"/>	
Sample: (B) Soup Mix									
Bacillus cereus count (cfu/g) by method: Spread	3100		3.4914	2.9542	0.2489		2.1578	<input checked="" type="checkbox"/>	
Coliform Count (cfu/g) by method: Pour	700		2.8451	2.8420	0.3297		0.0094	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Pour	700		2.8451	2.7782	0.3508		0.1909	<input type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Pour	690		2.8388	2.8513	0.2755		-0.0450	<input type="checkbox"/>	
Lactic acid bacteria Count (cfu/g) by method: Pour	390							<input type="checkbox"/>	
Mould Count (cfu/g) by method: Spread	550		2.7404	2.7782	0.1999		-0.1891	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Pour	21000		4.3222	4.2041	0.1782		0.6629	<input type="checkbox"/>	

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant Part01	Participant Id 204712	Result Name KAM							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (B) Soup Mix									
Thermotolerant (Faecal) Coliform Count (cfu/g) by method: Pour	660		2.8195	2.8325	0.3277		-0.0396	☐	
Total Anaerobic Count (cfu/g) by method: Pour	6000		3.7782	3.4771	0.1831		1.6442	☑	
Yeast Count (cfu/g) by method: Spread	1400		3.1461	3.0000	0.3284		0.4450	☐	
Sample: (C) Soup Mix									
Bacillus cereus count (cfu/g) by method: Spread	2100		3.3222	3.1761	0.3198		0.4570	☐	
Coliform Count (cfu/g) by method: Pour	1100		3.0414	3.0414	0.1728		0.0000	☐	
E. coli Count (cfu/g) by method: Pour	<10							☑	
Enterobacteriaceae Count (cfu/g) by method: Pour	1000		3.0000	3.0000	0.2616		0.0000	☐	
Lactic acid bacteria Count (cfu/g) by method: Pour	19000		4.2788	4.2430	0.1550		0.2305	☐	
Mould Count (cfu/g) by method: Spread	400		2.6021	2.5682	0.2024		0.1673	☐	
Plate Count (cfu/g) by method: Pour	50000		4.6990	4.3711	0.2374		1.3815	☑	
Thermotolerant (Faecal) Coliform Count (cfu/g) by method: Pour	580							☐	
Total Anaerobic Count (cfu/g) by method: Pour	27000		4.4314	4.3424	0.1131		0.7862	☐	
Yeast Count (cfu/g) by method: Spread	<100							☑	

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant Part02	Participant Id 204713	Result Name LTW							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (A) Soup Mix									
Bacillus cereus count (cfu/g) by method: Spread	1200		3.0792	3.0792	0.2427		0.0000	<input type="checkbox"/>	
Coliform Count (cfu/g) by method: Pour	530		2.7243	2.8976	0.3024		-0.5733	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Pour	530		2.7243	2.8865	0.3257		-0.4981	<input type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Pour	560		2.7482	2.8976	0.3109		-0.4807	<input type="checkbox"/>	
Lactic acid bacteria Count (cfu/g) by method: Pour	420							<input type="checkbox"/>	
Mould Count (cfu/g) by method: Spread	700		2.8451	2.7782	0.1802		0.3716	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Pour	21000		4.3222	4.1761	0.2195		0.6658	<input type="checkbox"/>	
Thermotolerant (Faecal) Coliform Count (cfu/g) by method: Pour	570		2.7559	2.9294	0.3024		-0.5739	<input type="checkbox"/>	
Total Anaerobic Count (cfu/g) by method: Pour	2000		3.3010	3.4150	0.2012		-0.5662	<input type="checkbox"/>	
Yeast Count (cfu/g) by method: Spread	1500		3.1761	3.0414	0.3173		0.4245	<input type="checkbox"/>	
Sample: (B) Soup Mix									
Bacillus cereus count (cfu/g) by method: Spread	3100		3.4914	2.9542	0.2489		2.1578	<input checked="" type="checkbox"/>	
Coliform Count (cfu/g) by method: Pour	690		2.8388	2.8420	0.3297		-0.0095	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Pour	690		2.8388	2.7782	0.3508		0.1730	<input type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Pour	690		2.8388	2.8513	0.2755		-0.0450	<input type="checkbox"/>	
Lactic acid bacteria Count (cfu/g) by method: Pour	390							<input type="checkbox"/>	
Mould Count (cfu/g) by method: Spread	550		2.7404	2.7782	0.1999		-0.1891	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Pour	21000		4.3222	4.2041	0.1782		0.6629	<input type="checkbox"/>	

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant Part02	Participant Id 204713	Result Name LTW							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (B) Soup Mix									
Thermotolerant (Faecal) Coliform Count (cfu/g) by method: Pour	660		2.8195	2.8325	0.3277		-0.0396	<input type="checkbox"/>	
Total Anaerobic Count (cfu/g) by method: Pour	5800		3.7634	3.4771	0.1831		1.5638	<input checked="" type="checkbox"/>	
Yeast Count (cfu/g) by method: Spread	1500		3.1761	3.0000	0.3284		0.5362	<input type="checkbox"/>	
Sample: (C) Soup Mix									
Bacillus cereus count (cfu/g) by method: Spread	2100		3.3222	3.1761	0.3198		0.4570	<input type="checkbox"/>	
Coliform Count (cfu/g) by method: Pour	1100		3.0414	3.0414	0.1728		0.0000	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Pour	<10							<input checked="" type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Pour	1000		3.0000	3.0000	0.2616		0.0000	<input type="checkbox"/>	
Lactic acid bacteria Count (cfu/g) by method: Pour	19000		4.2788	4.2430	0.1550		0.2305	<input type="checkbox"/>	
Mould Count (cfu/g) by method: Spread	450		2.6532	2.5682	0.2024		0.4201	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Pour	49000		4.6902	4.3711	0.2374		1.3445	<input checked="" type="checkbox"/>	
Thermotolerant (Faecal) Coliform Count (cfu/g) by method: Pour	600							<input type="checkbox"/>	
Total Anaerobic Count (cfu/g) by method: Pour	27000		4.4314	4.3424	0.1131		0.7862	<input type="checkbox"/>	
Yeast Count (cfu/g) by method: Spread	<100							<input checked="" type="checkbox"/>	

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant Part03	Participant Id 208302	Result Name Late results KAM							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (A) Soup Mix									
Coliform Count (cfu/g) by method: Petrifilm	530		2.7243	2.8976	0.3024	X	-0.5733	☐	
E. coli Count (cfu/g) by method: Petrifilm	540		2.7324	2.8865	0.3257	X	-0.4732	☐	
Enterobacteriaceae Count (cfu/g) by method: Petrifilm	580		2.7634	2.8976	0.3109	X	-0.4317	☐	
Mould Count (cfu/g) by method: Petrifilm	700		2.8451	2.7782	0.1802	X	0.3716	☐	
Plate Count (cfu/g) by method: Petrifilm	21000		4.3222	4.1761	0.2195	X	0.6658	☐	
Yeast Count (cfu/g) by method: Petrifilm	1600		3.2041	3.0414	0.3173	X	0.5129	☐	
Sample: (B) Soup Mix									
Coliform Count (cfu/g) by method: Petrifilm	660		2.8195	2.8420	0.3297	X	-0.0681	☐	
E. coli Count (cfu/g) by method: Petrifilm	670		2.8261	2.7782	0.3508	X	0.1366	☐	
Enterobacteriaceae Count (cfu/g) by method: Petrifilm	610		2.7853	2.8513	0.2755	X	-0.2393	☐	
Mould Count (cfu/g) by method: Petrifilm	400		2.6021	2.7782	0.1999	X	-0.8810	☐	
Plate Count (cfu/g) by method: Petrifilm	21000		4.3222	4.2041	0.1782	X	0.6629	☐	
Yeast Count (cfu/g) by method: Petrifilm	1800		3.2553	3.0000	0.3284	X	0.7773	☐	
Sample: (C) Soup Mix									
Coliform Count (cfu/g) by method: Petrifilm	1000		3.0000	3.0414	0.1728	X	-0.2395	☐	
E. coli Count (cfu/g) by method: Petrifilm	<10					X		✓	
Enterobacteriaceae Count (cfu/g) by method: Petrifilm	1100		3.0414	3.0000	0.2616	X	0.1582	☐	
Mould Count (cfu/g) by method: Petrifilm	330		2.5185	2.5682	0.2024	X	-0.2455	☐	



Result Report 20P3NP Food Non Pathogens

27 Apr 2020

Program Date



Proficiency Testing
Provider
Cert 3189-02

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant	Participant Id	Result Name							
Part03	208302	Late results KAM							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (C) Soup Mix									
Plate Count (cfu/g) by method: Petrifilm	50000		4.6990	4.3711	0.2374	X	1.3815	☑	
Yeast Count (cfu/g) by method: Petrifilm	<10					X		✓	

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant Part04	Participant Id 208303	Result Name Late results LTW							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (A) Soup Mix									
Coliform Count (cfu/g) by method: Petrifilm	510		2.7076	2.8976	0.3024	X	-0.6285	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Petrifilm	510		2.7076	2.8865	0.3257	X	-0.5494	<input type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Petrifilm	540		2.7324	2.8976	0.3109	X	-0.5315	<input type="checkbox"/>	
Mould Count (cfu/g) by method: Petrifilm	600		2.7782	2.7782	0.1802	X	0.0000	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Petrifilm	21000		4.3222	4.1761	0.2195	X	0.6658	<input type="checkbox"/>	
Yeast Count (cfu/g) by method: Petrifilm	2100		3.3222	3.0414	0.3173	X	0.8851	<input type="checkbox"/>	
Sample: (B) Soup Mix									
Coliform Count (cfu/g) by method: Petrifilm	650		2.8129	2.8420	0.3297	X	-0.0882	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Petrifilm	650		2.8129	2.7782	0.3508	X	0.0991	<input type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Petrifilm	630		2.7993	2.8513	0.2755	X	-0.1885	<input type="checkbox"/>	
Mould Count (cfu/g) by method: Petrifilm	600		2.7782	2.7782	0.1999	X	0.0000	<input type="checkbox"/>	
Plate Count (cfu/g) by method: Petrifilm	21000		4.3222	4.2041	0.1782	X	0.6629	<input type="checkbox"/>	
Yeast Count (cfu/g) by method: Petrifilm	1800		3.2553	3.0000	0.3284	X	0.7773	<input type="checkbox"/>	
Sample: (C) Soup Mix									
Coliform Count (cfu/g) by method: Petrifilm	1100		3.0414	3.0414	0.1728	X	0.0000	<input type="checkbox"/>	
E. coli Count (cfu/g) by method: Petrifilm	<10					X		<input checked="" type="checkbox"/>	
Enterobacteriaceae Count (cfu/g) by method: Petrifilm	1100		3.0414	3.0000	0.2616	X	0.1582	<input type="checkbox"/>	
Mould Count (cfu/g) by method: Petrifilm	360		2.5563	2.5682	0.2024	X	-0.0588	<input type="checkbox"/>	



Result Report 20P3NP Food Non Pathogens

27 Apr 2020

Program Date



Proficiency Testing
Provider
Cert 3189-02

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Participant	Participant Id	Result Name							
Part04	208303	Late results LTW							
Test Name	Result	Over-Ride	Log10	Median	NIQR	Exclude	ZScore	Evaluation	Comment
Sample: (C) Soup Mix									
Plate Count (cfu/g) by method: Petrifilm	53000		4.7243	4.3711	0.2374	X	1.4881	<input checked="" type="checkbox"/>	
Yeast Count (cfu/g) by method: Petrifilm	<10					X		<input checked="" type="checkbox"/>	

Vet Food Agro Diagnostics (M) Sdn Bhd (Cust Id: C01770)

Main Report columns	
Result	Result value as submitted by participant
Over-Ride	Replacement Result value determined by IFM (if required)
Log10	Log value of submitted result (or of Over-Ride, if present)
Median	Median Result value (from statistical analysis)
NIQR	Normalised Inter-Quartile Range (from statistical analysis)
Exclude	X - Result value was not included in the statistical analysis
Performance Indicator columns	
Z-score	= (Result - Median) / NIQR Log or raw results values may be used. Refer main report.
Evaluation	✓ Pass ✗ Fail Explicitly assigned to Detection and other qualitative test results. May also be assigned to those enumerative test results where a z-score cannot be calculated or is determined to be an inappropriate indicator of performance.
	⊘ Result could not be assessed or test was not assessed by IFM
	Refer to adjacent table for Z-score interpretation symbols

Interpretation of Z-scores	
+3	✗ Outlier
+2	✓ Fair
+1	✓ Good
(Median) 0	□ Excellent
-1	✓ Good
-2	✓ Fair
-3	✗ Outlier

The contents of this report must be viewed in conjunction with the information contained within the Main program report.