



# Recognition Schedule

## Laboratory Recognition Programme

Laboratory Name: ALS Technichem (S) Pte Ltd  
 Address: 121 Genting Lane #04-01, ALS Building, Singapore 349572  
 Lab Standard Method Edition: AOCS (2017), AOAC (2019), APHA 2017 (23rd Edition)

Certificate No.: LRP-2020-005/ALS  
 Date of Issue: 13 July 2022  
 Issue No.: 13

S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
1	Milk and Dairy Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
2			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
3			<i>Enterobacteriaceae</i> Count	ISO 21528-1: 2017; ISO 21528-2: 2017
4			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
5			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
6			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
7			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
8			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
9		Pathogens, Parasites & Toxins	<i>Bacillus cereus</i> Count	FDA-BAM Online Chapter 14: Oct 2020; ATS QWIMIC 100 Issue B
10			<i>Clostridium perfringens</i>	FDA BAM Chapter 16; ISO 7937:2004
11			Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
12			<i>Cronobacter spp.</i>	ATS QWIMIC 75 Issue B
13			<i>E. Coli</i> 0157:H7	AOAC Method No. 2000.14 / Neogen Reveal Microbial Screening Test
14			<i>Listeria monocytogenes</i>	FDA-BAM Online Chapter 10: Mar 2017; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
15			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
16			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
17			<i>Staphylococcal</i> Enterotoxin, A-E	RIDASCREEN Set Total & RIDASCREEN Set A, B, C, D, E
18			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004

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19		Drugs & Residues	Aminoglycosides	ATS QWIFD FC175 Issue A / LCMSMS
20			Penicillins	ATS QWIFD FC178 Issue A / LCMSMS
21			Sulpha Drugs	ATS QWIFD FC177 Issue A / LCMSMS
22			Tetracyclines	ATS QWIFD FC176 Issue A / LCMSMS
23		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
24			Melamine	ATS QWIFD FC80 Issue B / Dilution / LCMSMS; ATS QWIFD FC82 Issue B / SPE/ LCMSMS
25			Methyl Paraben	ATS QWIFD FC71 Issue B / HPLC
26			Nitrate	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
27			Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
28			Propyl Paraben	ATS QWIFD FC71 Issue B / HPLC
29	Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC		
30	Food Specifications	Ash	AOAC 930.30 Section 33.5.05; AOAC 945.48 Section 33.4.01E	

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31			Carbohydrate	ATS QWIFD FC23 Issue B by calculation
32			Crude Fat (ether extract)	AOAC 905.02 Section 33.2.25; AOAC 932.06 Section 33.5.08 / Alkaline Hydrolysis (Rose-Gottlieb Method)
33			Crude Protein	ATS QWIFD FC21 Issue B / Kjeldahl Method; ATS QWI FD FC118 Issue C / Nitrogen Analyzer
34			Fat %	AOAC 905.02 Section 33.2.25; AOAC 932.06 Section 33.5.08 / Alkaline Hydrolysis (Rose-Gottlieb Method)
35			Lard (eicosadienoic acid (C20:2 w6))	AOCS Ce 1h-05 / GC
36			Milk Fat	AOAC 905.02 Section 33.2.25; AOAC 932.06 Section 33.5.08 / Alkaline Hydrolysis (Rose-Gottlieb Method)
37			Milk Solids Non Fat	ATS QWIFD FC 172 Issue A
38			Moisture	ATS QWIFD FC20 Issue B
39			Sucrose	ATS QWIFD FC91 Issue C / HPAEC-PAD
40			Total Milk Solids	ATS QWIFD FC 172 Issue A
41			Total Solids	ATS QWIFD FC 172 Issue A

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique	
42		Inorganic Contaminants	Water activity @ 25 °C	ATS QWIFD FC96 Issue B/ Water Activity Meter	
43			Arsenic	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
44			Cadmium	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
45			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
46			Lead	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
47			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser	
48			Tin	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
49			Mycotoxins	Aflatoxin M1	ATS QWIFD FC70 Issue B / HPLC; ATS QWIFD FC198 Issue A / LCMSMS
50			Pesticides & Residues	Organochlorine Pesticides	ATS QWIENV ORG33 Issue B / Quechers Extraction / GCMSMS
51			Fats and Oil	Microbiological Indicators	Coliform Count

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52			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
53			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
54			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
55		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
56			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
57		Food Specifications	Cholesterol	ATS QWIFD OF26 Issue B / HPLC
58			Free Fatty Acid	AOCS Ca 5a-40; ISO 660 (2009)
59			Holde's Test	ATS QWIFD OF32 Issue A
60			Iodine Value	AOCS Cd 1d-92; ISO 3961 (2018)
61			Melting Point	AOCS Cc 3-25
62			Peroxide Value	AOCS Cd 8b-90; ISO 3960 (2017)
63			Saponification Value	AOCS Cd 3-25; ISO 3657 (2013)
64		Inorganic Contaminants	Copper	ATS QWIFD OF08 Issue B/Acid Digestion / ICPOES;

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
				ATS QWIFD OF 35 Issue A / Microwave Digestion / ICPMS
65			Lead	ATS QWIFD OF08 Issue B / Acid Digestion / ICPOES; ATS QWIFD OF 35 Issue A / Microwave Digestion / ICPMS
66	Nuts and Related Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
67			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
68			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
69			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
70		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
71			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
72			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
73	<i>Vibrio cholerae</i>		FDA-BAM Online Chapter 9: May 2004	

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
74		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
75	Fruits and Vegetables	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
76			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
77			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
78			Total Colony Count/ Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
79			Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
80		Pathogens, Parasites & Toxins	<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
81			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
82			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
83		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
84			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC



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85			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method
86			Sweeteners (Acesulfame-K, Saccharin, Cyclamate as Cyclamic Acid)	ATS QWIFD FC88 Issue B / HPLC; ATS QWIFD FC99 Issue B / HPLC
87		Pesticides & Residues	Pesticide Residues	ATS QWIFD FC168 Issue A / QuEChERS Extraction / LCMSMS; ATS QWIENV ORG33 Issue B/ Quechers Extraction / GCMSMS
88	Cocoa Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
89			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
90			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
91			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
92		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
93			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS

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94			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C	
95			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004	
96		Food Specifications	Fat %	ATS QWIFD FC 22 Issue B	
97			Moisture	ATS QWIFD FC20 Issue B	
98			pH	ATS QWIFD FC45 Issue B / pH Meter	
99		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue A / Acid Digest/ ICPMS	
100			Cadmium	ATS QWIFD FC163 Issue A / Acid Digest/ ICPMS	
101			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
102			Lead	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
103		Meat and Meat Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
104				<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
105				pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
106	Total Colony Count / Aerobic Plate Count @ 30/35°C			FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013	

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107		Pathogens, Parasites & Toxins	<i>Campylobacter spp.</i>	FDA-BAM Online, Chapter 7: Mar 2001
108			<i>Clostridium perfringens</i>	FDA-BAM Online, Chapter 16: Jan 2001; ISO 7937:2004
109			Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
110			<i>Listeria monocytogenes</i>	FDA-BAM Online Chapter 10: Mar 2017; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
111			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
112			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
113			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
114			Drugs & Residues	Beta-agonists
115	Nitrofurantoin and metabolites	ATS QWIFD FC84 Issue B / LCMSMS		

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116		Food Additives	Sulpha Drugs	ATS QWIFD FC177 Issue A / LCMSMS
117			Nitrate	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
118			Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
119		Inorganic Contaminants	Lead	ATS QWIFD FC163 Issue A / Acid Digest/ ICPMS; ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
120			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
121		Pesticides & Residues	Organochlorine Pesticides	ATS QWIENV ORG33 Issue B / Quechers Extraction / GCMSMS
122		Fish and Seafood Products	Microbiological Indicators	Coliform Count
123	<i>E. coli</i> Count			FDA-BAM Online Chapter 4: Oct 2020
124	Faecal Coliform Count			FDA-BAM Online Chapter 4: Oct 2020
125	pH @ 25C			ATS QWIFD FC45 Issue B / pH Meter
126	Total Colony Count / Aerobic Plate Count @ 30/35°C			FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013

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127		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
128			<i>Listeria monocytogenes</i>	FDA-BAM Online Chapter 10: Mar 2017; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
129			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
130			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
131			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
132			Drugs & Residues	Aminoglycosides
133		Chloramphenicol		ATS QWI FD FC89 Issue B / LCMSMS
134		Crystal Violet and Leuco Crystal Violet		ATS QWIFD FC92 Issue C / LCMSMS
135		Malachite green and Leuco-malachite green		ATS QWIFD FC92 Issue C / LCMSMS
136		Nitrofurans and metabolites		ATS QWIFD FC84 Issue B / LCMSMS
137		Penicillins		ATS QWIFD FC178 Issue A / LCMSMS

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138		Food Additives	Tetracyclines	ATS QWIFD FC176 Issue A / LCMSMS
139			Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
140			Formaldehyde	ATS QWIFD FC159 Issue B / Distillation / UV
141			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
142		Food Specifications	Phosphate (as P2O5)	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
143			Total Volatile Nitrogen	ATS QWIFD FC38 Issue B / Distillation / Titration
144		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
145			Cadmium	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
146			Lead	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
147			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A/ Combustion/ Mercury Analyser

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148		Organic Contaminants	Histamine	ATS QWIFD FC149 Issue B / LCMSMS
149		Pesticides & Residues	Organochlorine Pesticides	ATS QWIENV ORG33 Issue B / Quechers Extraction / GCMSMS
150	Egg and Egg Based Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
151			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
152			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
153			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
154		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
155			<i>Listeria monocytogenes</i>	FDA-BAM Online Chapter 10: Mar 2017; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
156			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
157	<i>Shigella spp.</i>		ISO 21567: 2004; ATS QWIMIC 21 Issue C	

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158			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004	
159		Inorganic Contaminants	Lead (Preserved Eggs)	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
160	Sweeteners	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020	
161			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020	
162			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020	
163			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008	
164			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013	
165			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008	
166			Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
167		<i>Salmonella spp.</i>		FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS	
168			Food Additives	Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method



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169		Food Specifications	Sucrose	ATS QWIFD FC91 Issue C / HPAEC-PAD
170		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
171			Cadmium	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
172			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
173			Lead	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
174			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
175	Flour, Improvers and Related Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
176			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
177			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
178			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
179		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021

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Certificate No.: LRP-2020-005/ALS  
 Date of Issue: 13 July 2022  
 Issue No.: 13

S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
180		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
181			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
182		Food Specifications	Moisture	ATS QWIFD FC20 Issue B
183			pH	ATS QWIFD FC45 Issue B / pH Meter
184		Inorganic Contaminants	Antimony	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
185			Arsenic	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
186			Cadmium	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
187			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
188			Lead	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
189			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser;

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 Issue No.: 13

S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
				ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
190			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
191		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
192		Bioengineering	GMO Testing for Soy Products (Soya endogenous, CaMV 35S promoter, NOS terminator)	ATS QWIMIC 99 Issue B
193	Grain Based Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
194			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
195			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
196			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
197			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
198			Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count
199		<i>Salmonella spp.</i>		FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017;

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 Issue No.: 13

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				ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
200			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
201			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
202		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
203	Confectionery and Bakery Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
204			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
205			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
206			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
207			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
208			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
209		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
210			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017;

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique	
				ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS	
211			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C	
212			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004	
213	Sauces, Seasonings, Soup, Spices and Related Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020	
214			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020	
215			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020	
216			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008	
217			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter	
218			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013	
219			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008	
220			Pathogens, Parasites & Toxins	<i>Bacillus cereus</i> Count	FDA-BAM Online Chapter 14: Oct 2020; ATS QWIMIC 100 Issue B
221				Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
222		<i>Listeria monocytogenes</i>		FDA-BAM Online Chapter 10: Mar 2017;	

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				ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
223			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
224			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
225			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
226			<i>Vibrio parahaemolyticus</i> Count	FDA-BAM Online Chapter 9: May 2004
227		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
228	Methyl Paraben		ATS QWIFD FC71 Issue B / HPLC	
229	Propyl Paraben		ATS QWIFD FC71 Issue B / HPLC	
230	Sorbic Acid		ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
231		Food Specifications	Moisture	ATS QWIFD FC20 Issue B
232			Nitrogen Content / Total Nitrogen by Kjeldahl	ATS QWIFD FC21 Issue B / Kjeldahl Method;

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Certificate No.: LRP-2020-005/ALS  
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 Issue No.: 13

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				ATS QWI FD FC118 Issue C / Nitrogen Analyzer
233		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
234	Cadmium		ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
235	Copper		ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
236	Lead		ATS QWIFD FC163 Issue A / Acid Digest / ICPMS	
237		Organic Contaminants	3-MCPD(3-MONOCHLOROPROPANE-1,2-DIOL)	ATS QWIFD FC27 Issue C / GCMS
238	Food Supplements	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
239			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
240			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
241			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
242			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
243		Pathogens, Parasites & Toxins	<i>Bacillus cereus</i> Count	FDA-BAM Online Chapter 14: Oct 2020; ATS QWIMIC 100 Issue B

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Certificate No.: LRP-2020-005/ALS  
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 Issue No.: 13

S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
244			Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
245			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
246			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
247			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
248		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
249			Nitrate	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
250			Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
251			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
252			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method
253			Inorganic Contaminants	Arsenic



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Certificate No.: LRP-2020-005/ALS  
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254			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
255			Lead	ATS QWIFD FC163 Issue A/ Acid Digest/ ICPMS
256	Bottled Water	Microbiological Indicators	Coliform Count	APHA 9221B; APHA 9222B
257			<i>E. coli</i> Count	APHA 9222H
258			Faecal Coliform Count	APHA 9222D; APHA 9221E
259			Sulphite Reducing <i>Clostridia</i>	ISO 6461-2
260			Total Colony Count / Aerobic Plate Count @ 30/35°C	APHA 9215B; APHA 9215D
261		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021; APHA 9213B
262			<i>Salmonella spp.</i>	APHA 9260B
263		Tea	Microbiological Indicators	Coliform Count
264	<i>E. coli</i> Count			FDA-BAM Online Chapter 4: Oct 2020
265	Faecal Coliform Count			FDA-BAM Online Chapter 4: Oct 2020
266	Mould Count			FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008

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267			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
268			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
269		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
270			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
271		Inorganic Contaminants	Arsenic	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
272			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
273			Lead	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
274	Beverages	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
275			<i>E. coli</i> Count	FDA-BAM Online Chapter 4: Oct 2020
276			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
277			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008

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278			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
279			Sulphite Reducing <i>Clostridia</i>	ISO 15213:2003
280			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013; ISO 4833-2: 2013
281			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
282		Pathogens, Parasites & Toxins	Coagulase Positive <i>Staphylococcus aureus</i> Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
283			<i>Listeria monocytogenes</i>	FDA-BAM Online Chapter 10: Mar 2017; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
284			<i>Salmonella spp.</i>	FDA-BAM Online Chapter 5: Jun 2021; ISO 6579-1: 2017; ATS QWIMIC 93A-B Issue B (RT-PCR); SOLUS
285			<i>Shigella spp.</i>	ISO 21567: 2004; ATS QWIMIC 21 Issue C
286			<i>Vibrio cholerae</i>	FDA-BAM Online Chapter 9: May 2004
287			Drugs & Residues	Aminoglycosides

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288			Penicillins	ATS QWIFD FC178 Issue A/ LCMSMS
289			Sulpha Drugs	ATS QWIFD FC177 Issue A / LCMSMS
290			Tetracyclines	ATS QWIFD FC176 Issue A / LCMSMS
291		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
292			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
293			Lead	ATS QWIFD FC163 Issue A / Acid Digest / ICPMS
294	General Food Products (Radioactivity)	Radioactivity	Cs-134	ATS QWIEL TM36 Issue B / gamma-Ray spectrometry
295			Cs-137	ATS QWIEL TM36 Issue B / gamma-Ray spectrometry
296			I-131	ATS QWIEL TM36 Issue B / gamma-Ray spectrometry
297	Canned Food Products	Microbiological Indicators	Commercial Sterility Test (a) Incubation tests (35 °C for 10 days/ 55 °C for 5 days) (b) pH test (c) Detection of Aerobes and Anaerobes	(a) Compendium of Methods for Microbiological Examinations of Foods, 5th Edition, Chapter 61 (b) ATS QWIFD FC45 Issue B / pH Meter (C) FDA-BAM Online Chapter 3: Jan 2001;

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				ISO 4833-1: 2013; ISO 4833-2: 2013; Compendium of Methods for Microbiological Examinations of Foods, 5th Edition, Chapter 61
298	Swabs from Poultry and Farm Environment	Pathogens, Parasites & Toxins	<i>Salmonella Enteritidis</i>	ATS QWIMIC 149 Issue B
299			<i>Salmonella spp.</i>	ATS QWIMIC 149 Issue B
300	Animal Feed	Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC