



Recognition Schedule

Laboratory Recognition Programme

Laboratory Name: ALS Technichem (S) Pte Ltd
 Address: 121 Genting Lane #04-01, ALS Building
 Singapore 349572

Certificate No.: LRP-2020-005/ALS
 Date of Issue: 01 April 2023
 Issue No.: 14

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			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
3			Enterobacteriaceae 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 / AMD 1: 2022; ISO 4833-2: 2013 / AMD 1: 2022
8			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
9		Pathogens, Parasites & Toxins	Bacillus cereus Count	FDA-BAM Online Chapter 14: Oct 2020; ATS QWIMIC 100 Issue C

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10			Clostridium perfringens	FDA-BAM Online, Chapter 16: Jan 2001; ISO 7937:2004
11			Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1: 2021
12			Cronobacter sakazakii [^]	ATS QWIMIC 75 Issue C
13			Cronobacter spp.	ATS QWIMIC 75 Issue C
14			E. coli O157: H7 (Screening test)	AOAC Method No. 2000.14 / Neogen Reveal Microbial Screening Test
15			Lactobacillus spp and Lactic Acid Bacteria	ISO 15214: 1998
16			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
17			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1: 2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
18			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
19			Staphylococcal Enterotoxin, A-E	RIDASCREEN Set Total & RIDASCREEN Set A, B, C, D, E
20			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
21		Drugs & Residues	Aminoglycosides	ATS QWIFD FC175 Issue A / LCMSMS (Screening); ATS QWIFD FC188 Issue A / LCMSMS (Quantification)
22		Drugs & Residues	Penicillins	ATS QWIFD FC178 Issue A / LCMSMS (Screening)

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23			Sulpha Drugs	ATS QWIFD FC177 Issue A / LCMSMS (Screening); ATS QWIFD FC190 Issue A / LCMSMS (Quantitation)
24			Tetracyclines	ATS QWIFD FC176 Issue A / LCMSMS (Screening)
25			Nitrofurantoin and metabolites	ATS QWIFD FC84 Issue B / LCMSMS
26		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
27			Melamine	ATS QWIFD FC80 Issue B / Dilution / LCMSMS; ATS QWIFD FC82 Issue B / SPE / LCMSMS
28			Methyl Paraben	ATS QWIFD FC71 Issue B / HPLC
29			Nitrate	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
30			Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
31			Propyl Paraben	ATS QWIFD FC71 Issue B / HPLC
32			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
33		Food Specifications	Ash	AOAC 930.30 Section 33.5.05; AOAC 945.48 Section 33.4.01E
34			Carbohydrate	ATS QWIFD FC23 Issue B by calculation
35			Crude Fat (ether extract)	AOAC 905.02 Section 33.2.25; AOAC 932.06 Section 33.5.08 / Alkaline Hydrolysis (Rose-Gottlieb Method)
36			Crude Protein	ATS QWIFD FC21 Issue B / Kjeldahl Method; ATS QWIFD FC118 Issue C / Nitrogen Analyzer

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37			Fat %	AOAC 905.02 Section 33.2.25; AOAC 932.06 Section 33.5.08 / Alkaline Hydrolysis (Rose-Gottlieb Method)
38			Lard (eicosadienoic acid (C20:2 w6))	AOCS Ce 1h-05 / GC
39			Milk Fat	AOAC 905.02 Section 33.2.25; AOAC 932.06 Section 33.5.08 / Alkaline Hydrolysis (Rose-Gottlieb Method)
40			Milk Solids Non Fat	ATS QWIFD FC 172 Issue A
41			Moisture	ATS QWIFD FC20 Issue B
42			Sucrose	ATS QWIFD FC91 Issue C / HPAEC-PAD
43			Total Milk Solids	ATS QWIFD FC 172 Issue A
44			Total Solids	ATS QWIFD FC 172 Issue A
45			Water activity @ 25 °C	ATS QWIFD FC96 Issue B/ Water Activity Meter
46		Inorganic Contaminants	Aluminium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
47			Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
48			Cadmium	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
49			Chromium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
50			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
51			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS

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52			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
53			Nickel	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
54			Tin	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
55		Mycotoxins	Aflatoxin M1	ATS QWIFD FC70 Issue B / HPLC; ATS QWIFD FC198 Issue A / LCMSMS
56		Pesticides & Residues	Organochlorine Pesticides	ATS QWIENV ORG33 Issue C / QuEChERS / Extraction / GCMSMS
57		Fats and Oil	Microbiological Indicators	Coliform Count
58	E. coli Count			FDA-BAM Online Chapter 4: Oct 2020
59	Faecal Coliform Count			FDA-BAM Online Chapter 4: Oct 2020
60	Total Colony Count / Aerobic Plate Count @ 30/35°C			FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
61	Pathogens, Parasites & Toxins		Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
62			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
63	Food Specifications		Cholesterol	ATS QWIFD OF26 Issue B / HPLC

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64			Free Fatty Acid	AOCS Ca 5a-40; ISO 660 (2009)
65			Holde's Test	ATS QWIFD OF32 Issue A
66			Iodine Value	AOCS Cd 1d-92; ISO 3961 (2018)
67			Melting Point	AOCS Cc 3-25
68			Peroxide Value	AOCS Cd 8b-90; ISO 3960 (2017)
69			Saponification Value	AOCS Cd 3-25; ISO 3657 (2013)
70				Inorganic Contaminants
71	Lead	ATS QWIFD OF08 Issue B/Acid Digestion / ICPOES; ATS QWIFD OF 35 Issue A/Microwave Digestion / ICPMS		
72	Nuts and Related Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
73			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
74			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
75			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
76		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
77			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022;

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				ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
78			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
79			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
80		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
81			Deoxynivalenol	ATS QWIFD FC114 Issue B / HPLC
82			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
			Ochratoxin A	ATS QWIFD FC54 Issue C / HPLC
84			Zearalenone	ATS QWIFD FC94 Issue B / HPLC
85	Fruits and Vegetables	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
86			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
87			E. coli O157: H7 (Screening test)	AOAC Method No. 2000.14 / Neogen Reveal Microbial Screening Test
88			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
89			Total Colony Count/ Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 / AMD 1: 2022; ISO 4833-2: 2013 / AMD 1: 2022
90		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021

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91			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
92			Norovirus (Genotype I & II)	ATS QWI MIC 143 Issue B
93			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
94			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
95			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
96			Vibrio parahaemolyticus Count	FDA-BAM Online Chapter 9: May 2004
97			Vibrio vulnificus	FDA-BAM Online Chapter 9: May 2004
98		Food Additives	10 sweeteners: Acesulfame K, Cyclamate, Saccharin, Stevioside, Sucralose, Advantame, Alitame, Aspartame, Neohesperidin Dihydrochalcone, Neotame	ATS QWIFD FC200 Issue A/ LCMSMS
99			Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
100			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
101			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method
102			Sweeteners (Acesulfame-K, Saccharin, Cyclamate as Cyclamic Acid)	ATS QWIFD FC88 Issue B / HPLC; ATS QWIFD FC99 Issue B / HPLC

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103			Aluminium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
104			Antimony	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
105			Arsenic	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
106			Cadmium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
107			Chromium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
108			Lead	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
109			Mercury	ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
110			Nickel	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
111			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
112		Pesticides & Residues	Pesticide Residues	ATS QWIFD FC168 Issue A / QuEChERS Extraction / LCMSMS; ATS QWIENV ORG33 Issue C / QuEChERS / Extraction / GCMSMS
113			Dithiocarbamates (as total carbon disulfide)	ATS QWIENV ORG30 Issue B / GCMS/ECD; ATS QWIENV ORG45 Issue A / GC-FPD
114	Cocoa Products		Coliform Count	FDA-BAM Online Chapter 4: Oct 2020

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115		Microbiological Indicators	E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
116			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
117			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
118		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
119			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
120			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
121			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
122		Food Specifications	Fat %	ATS QWIFD FC 22 Issue B
123			Moisture	ATS QWIFD FC20 Issue B
124			pH	ATS QWIFD FC45 Issue B / pH Meter
125		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
126			Cadmium	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
127			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
128			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
129		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC

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130			Deoxynivalenol	ATS QWIFD FC114 Issue B / HPLC
131			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
132			Ochratoxin A	ATS QWIFD FC54 Issue C / HPLC
133			Zearalenone	ATS QWIFD FC94 Issue B/ HPLC
134			Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
135			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
136		Microbiological Indicators	pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
137			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
138			Campylobacter spp.	FDA-BAM Online, Chapter 7: Mar 2001
139	Meat and Meat Products	Pathogens, Parasites & Toxins	Clostridium perfringens	FDA-BAM Online, Chapter 16: Jan 2001; ISO 7937:2004
140			Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
141			E. coli O157: H7 (Screening test)	AOAC Method No. 2000.14 / Neogen Reveal Microbial Screening Test
142			Lactobacillus spp and Lactic Acid Bacteria (for fermented meat products)	ISO 15214: 1998
143			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS

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144			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
145			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D	
146			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004	
147		Drugs & Residues	Aminoglycosides	ATS QWIFD FC175 Issue A / LCMSMS (Screening); ATS QWIFD FC188 Issue A / LCMSMS (Quantification)	
148			Beta-agonists	ATS QWIFD FC179 Issue A / LCMSMS (Screening); ATS QWIFD FC180 Issue A / LCMSMS (Quantitation)	
149			Penicillins	ATS QWIFD FC178 Issue A / LCMSMS (Screening)	
150			Tetracycline	ATS QWIFD FC176 Issue A / LCMSMS (Screening)	
151			Nitrofurans and metabolites	ATS QWIFD FC84 Issue B / LCMSMS	
152			Sulpha Drugs	ATS QWIFD FC177 Issue A / LCMSMS (Screening); ATS QWIFD FC190 Issue A / LCMSMS (Quantitation)	
153			Food Additives	Nitrate	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
154				Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
155		Inorganic Contaminants	Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS; ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
156			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
157		Pesticides & Residues	Organochlorine Pesticides	ATS QWIENV ORG33 Issue C / QuEChERS / Extraction / GCMSMS	

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158	Fish and Seafood Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
159			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
160			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
161			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
162			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
163		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
164			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
165			Norovirus (Genotype I & II)	ATS QWI MIC 143 Issue B
166			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
167			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
168			Streptococcus agalactiae (Group B Streptococcus, GBS) cultural testing	Food borne Pathogen & Disease Volume 00 Number 00, 2009
169			Sulphite Reducing Clostridia	ISO 15213:2003
170			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004

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171			Vibrio parahaemolyticus Count	FDA-BAM Online Chapter 9: May 2004	
172			Vibrio vulnificus	FDA-BAM Online Chapter 9: May 2004	
173		Drugs & Residues	Aminoglycosides	ATS QWIFD FC175 Issue A / LCMSMS (Screening) ATS QWIFD FC188 Issue A / LCMSMS (Quantification)	
174			Chloramphenicol	ATS QWI FD FC89 Issue B / LCMSMS	
175			Crystal Violet and Leuco Crystal Violet	ATS QWIFD FC92 Issue C / LCMSMS	
176			Malachite green and Leuco-malachite green	ATS QWIFD FC92 Issue C / LCMSMS	
177			Sulpha drugs	ATS QWIFD FC177 Issue A / LCMSMS (Screening); ATS QWIFD FC190 Issue A / LCMSMS (Quantitation)	
178			Nitrofurans and metabolites	ATS QWIFD FC84 Issue B / LCMSMS	
179			Penicillins	ATS QWIFD FC178 Issue A / LCMSMS (Screening)	
180			Tetracyclines	ATS QWIFD FC176 Issue A / LCMSMS (Screening)	
181			Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
182				Formaldehyde	ATS QWIFD FC159 Issue B / Distillation / UV
183		Sorbic Acid		ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
184		Sulphur Dioxide		AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method	
185		Food Specifications	Phosphate (as P ₂ O ₅)	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
186			Total Volatile Nitrogen	ATS QWIFD FC38 Issue B / Distillation / Titration	

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187		Inorganic Contaminants	Aluminium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
188			Antimony	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
189			Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
190			Cadmium	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
191			Chromium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
192			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
193			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A/ Combustion/ Mercury Analyser
194			Nickel	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
195			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
196			Organic Contaminants	Histamine
197		Pesticides & Residues	Organochlorine Pesticides	ATS QWIENV ORG33 Issue C / QuEChERS / Extraction / GCMSMS
198	Egg and Egg Based Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
199			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
200			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020

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201			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
202		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
203	Listeria monocytogenes		FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
204	Salmonella Enteritidis		ATS QWIMIC 149 Issue C	
205	Salmonella spp.		FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
206	Serotyping Salmonella Enteritidis		ATS QWIMIC 149 Issue C	
207	Shigella spp.		ISO 21567: 2004; ATS QWIMIC 21 Issue D	
208	Vibrio cholerae		FDA-BAM Online Chapter 9: May 2004	
209			Drugs & Residues	Aminoglycosides [^]
210	Penicillins [^]	ATS QWIFD FC178 Issue A / LCMSMS (Screening)		
211	Sulpha drugs [^]	ATS QWIFD FC177 Issue A / LCMSMS (Screening); ATS QWIFD FC190 Issue A / LCMSMS (Quantitation)		
212	Tetracyclines	ATS QWIFD FC176 Issue A / LCMSMS (Screening)		
213	Nitrofurans and metabolites	ATS QWIFD FC84 Issue B / LCMSMS		

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214		Inorganic Contaminants	Arsenic	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
215			Cadmium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
216			Chromium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
217			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
218			Lead (Preserved Eggs)	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
219			Mercury	ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
220			Nickel	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest/ ICP-MS
221			Sweeteners	Microbiological Indicators
222	E. coli Count	FDA-BAM Online Chapter 4: Oct 2020		
223	Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020		
224	Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008		
225	Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 / AMD 1: 2022; ISO 4833-2: 2013 / AMD 1: 2022		
226	Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008		

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227		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021	
228			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
229		Food Additives	Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method	
230		Food Specifications	Sucrose	ATS QWIFD FC91 Issue C / HPAEC-PAD	
231		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS	
232			Cadmium	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS	
233			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
234			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS	
235			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser	
236		Flour, Improvers and Related Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
237				E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
238	Faecal Coliform Count			FDA-BAM Online Chapter 4: Oct 2020	
239	Total Colony Count / Aerobic Plate Count @ 30/35°C			FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022;	

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				ISO 4833-2: 2013 /AMD 1: 2022
240		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
241		Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
242	Sorbic Acid		ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
243		Food Specifications	Moisture	ATS QWIFD FC20 Issue B
244			pH	ATS QWIFD FC45 Issue B / pH Meter
245		Inorganic Contaminants	Antimony	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
246			Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
247			Cadmium	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
248			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES;
249			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
250			Mercury	ATS QWIFD FC26 Issue C / Acid Digestion / Flow Injection Mercury Analyser; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
251			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
252		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
253			Deoxynivalenol	ATS QWIFD FC114 Issue B/ HPLC

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254			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
255			Ochratoxin A	ATS QWIFD FC54. Issue C / HPLC
256			Zearalenone	ATS QWIFD FC94. Issue B / HPLC
257	Grain Based Products	Bioengineering	GMO Testing for Soy Products (Soya endogenous, CaMV 35S promoter, NOS terminator)	ATS QWIMIC 99 Issue C
258		Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
259			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
260			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
261			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
262			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
263			Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
264		Pathogens, Parasites & Toxins	Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
265			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
266			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004

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267		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
268			Deoxynivalenol	ATS QWIFD FC114 Issue B / HPLC
269			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
270			Ochratoxin A	ATS QWIFD FC54. Issue C / HPLC
271			Zearalenone	ATS QWIFD FC94. Issue B / HPLC
272		Pesticides & Residues	Inorganic Bromide Residue	CRL for single residue methods ATS QWIENV ORG31 Issue C
273		Confectionery and Bakery Products	Microbiological Indicators	Coliform Count
274	E. coli Count			FDA-BAM Online Chapter 4: Oct 2020
275	Faecal Coliform Count			FDA-BAM Online Chapter 4: Oct 2020
276	Mould Count			FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
277	Total Colony Count / Aerobic Plate Count @ 30/35°C			FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
278	Yeast Count			FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
279	Pathogens, Parasites & Toxins		Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
280		Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	

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281			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D	
282			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004	
283		Food Additives	10 sweeteners: Acesulfame K, Cyclamate, Saccharin, Stevioside, Sucralose, Advantame, Alitame, Aspartame, Neohesperidin Dihydrochalcone, Neotame [^]	ATS QWIFD FC200 Issue A/ LCMSMS	
284			Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
285			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
286			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method	
287			Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
288		Deoxynivalenol		ATS QWIFD FC114 Issue B / HPLC	
289		Fumonisin (FB1, FB2)		ATS QWIFD FC115 Issue B / HPLC-FLD	
290		Ochratoxin A		ATS QWIFD FC54. Issue C / HPLC	
291		Zearalenone		ATS QWIFD FC94. Issue B / HPLC	
292		Sauces, Seasonings, Soup, Spices and Related Products	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
293				E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
294				Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020

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295			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
296			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
297			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022
298			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008
299		Pathogens, Parasites & Toxins	Bacillus cereus Count	FDA-BAM Online Chapter 14: Oct 2020; ATS QWIMIC 100 Issue C
300			Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
301			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
302			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
303			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
304			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
305			Vibrio parahaemolyticus Count	FDA-BAM Online Chapter 9: May 2004
306			Food Additives	10 sweeteners: Acesulfame K, Cyclamate, Saccharin, Stevioside, Sucralose,

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			Advantame, Alitame, Aspartame, Neohesperidin Dihydrochalcone, Neotame	
307			Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
308			Methyl Paraben	ATS QWIFD FC71 Issue B / HPLC
309			Propyl Paraben	ATS QWIFD FC71 Issue B / HPLC
310			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
311			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method
312		Food Specifications	Moisture	ATS QWIFD FC20 Issue B
313			Nitrogen Content / Total Nitrogen by Kjeldahl	ATS QWIFD FC21 Issue B / Kjeldahl Method; ATS QWI FD FC118 Issue C / Nitrogen Analyzer
314		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
315			Cadmium	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
316			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
317			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
318		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
319			Deoxynivalenol [^]	ATS QWIFD FC114 Issue B / HPLC
320			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
321			Zearalenone [^]	ATS QWIFD FC94 Issue B / HPLC

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
322		Organic Contaminants	3-MCPD(3-MONOCHLOROPROPANE-1,2-DIOL)	ATS QWIFD FC27 Issue D / GCMS
323	Food Supplements	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
324			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020
325			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020
326			pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter
327			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 / AMD 1: 2022; ISO 4833-2: 2013 / AMD 1: 2022
328			Bacillus cereus Count	FDA-BAM Online Chapter 14: Oct 2020; ATS QWIMIC 100 Issue C
329		Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021	
330		Pathogens, Parasites & Toxins	Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
331			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
332			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
333			Food Additives	Benzoic Acid
334		Nitrate		ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer

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335			Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
336			Sorbic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
337			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method
338		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS
339			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
340			Lead	ATS QWIFD FC163 Issue B / Acid Digest/ ICPMS
341	Bottled Water	Microbiological Indicators	Coliform Count	APHA 9221B; APHA 9222B
342			E. coli Count	APHA 9222H
343			Faecal Coliform Count	APHA 9222D; APHA 9221E
344			Sulphite Reducing Clostridia	ISO 6461-2- 1986 (E) / Re-affirm 2013 Membrane Filtration
345			Total Colony Count / Aerobic Plate Count @ 30/35°C	APHA 9215B; APHA 9215D
346		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021; APHA 9213B
347			Enterococci Count	APHA 9230C
348			Pseudomonas aeruginosa Count	APHA 9213E
349			Salmonella spp.	APHA 9260B

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350		Inorganic Contaminants	Bromate	APHA 4110D / USEPA Method 300.0 Rev 3.1 (1993)	
351		Organic Contaminants	Trihalomethanes - Chloroform, bromodichloromethane, dibromochloromethane, bromoform	USEPA 8260D (2017)	
352	Tea	Microbiological Indicators	Coliform Count	FDA-BAM Online Chapter 4: Oct 2020	
353			E. coli Count	FDA-BAM Online Chapter 4: Oct 2020	
354			Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020	
355			Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008	
356			Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022	
357			Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008	
358			Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021
359		Salmonella spp.		FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 / AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
360			Inorganic Contaminants	Arsenic	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
361				Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES

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362		Mycotoxins	Lead	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES
363			Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
364			Deoxynivalenol	ATS QWIFD FC114 Issue B / HPLC
365			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
366			Ochratoxin A	ATS QWIFD FC54. Issue C / HPLC
367			Zearalenone	ATS QWIFD FC94. Issue B / HPLC
368			Beverages	Microbiological Indicators
369	E. coli Count	FDA-BAM Online Chapter 4: Oct 2020		
370	Faecal Coliform Count	FDA-BAM Online Chapter 4: Oct 2020		
371	Mould Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008		
372	pH @ 25C	ATS QWIFD FC45 Issue B / pH Meter		
373	Sulphite Reducing Clostridia	ISO 15213:2003		
374	Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022		
375	Yeast Count	FDA-BAM Online Chapter 18: Apr 2001; ISO 21527-2: 2008		
376	Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus Count		

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377			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
378			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS
379			Shigella spp.	ISO 21567: 2004; ATS QWIMIC 21 Issue D
380			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004
381		Drugs & Residues	Aminoglycosides	ATS QWIFD FC175 Issue A / LCMSMS (Screening) ATS QWIFD FC188 Issue A / LCMSMS (Quantification)
382	Penicillins		ATS QWIFD FC178 Issue A / LCMSMS (Screening)	
383	Sulpha Drugs		ATS QWIFD FC177 Issue A / LCMSMS (Screening) ATS QWIFD FC190 Issue A / LCMSMS (Quantitation)	
384	Tetracyclines		ATS QWIFD FC176 Issue A / LCMSMS (Screening)	
385		Food Additives	10 sweeteners: Acesulfame K, Cyclamate, Saccharin, Stevioside, Sucralose, Advantame, Alitame, Aspartame, Neohesperidin Dihydrochalcone, Neotame [^]	ATS QWIFD FC200 Issue A / LCMSMS
386	Benzoic Acid		ATS QWIFD FC02 Issue D / Direct / HPLC	
387	Sorbic Acid		ATS QWIFD FC02 Issue D / Direct / HPLC	
388	Sulphur Dioxide		AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method	

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389		Inorganic Contaminants	Arsenic	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS	
390			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES	
391			Lead	ATS QWIFD FC163 Issue B / Acid Digest / ICPMS	
392		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC	
393			Ochratoxin A	ATS QWIFD FC54 Issue C / HPLC	
394		General Food Products	Food Additives	10 sweeteners: Acesulfame K, Cyclamate, Saccharin, Stevioside, Sucralose, Advantame, Alitame, Aspartame, Neohesperidin Dihydrochalcone, Neotame [^]	ATS QWIFD FC200 Issue A / LCMSMS
395	Benzoic Acid			ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
396	Nitrate			ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer	
397	Nitrite			ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer	
398	Sorbic Acid			ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	
399	Sulphur Dioxide			AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method	
400	Inorganic Contaminants			Aluminium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
401				Antimony	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
402				Arsenic	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES;

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S/N	Food Category	Area	Test Parameter	Standard Reference Method/ In-house Method No./ Equipment/ Technique
				ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
403			Cadmium	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
404			Copper	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
405			Lead	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
406			Mercury	ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS; ATS QWIFD FC170 Issue A / Combustion / Mercury Analyser
407			Nickel	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES; ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
408			Tin	ATS QWIFD FC25 Issue E / Acid Digest / ICP-OES ATS QWIFD FC163 Issue B / Acid Digest / ICP-MS
409		Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
410			Deoxynivalenol [^]	ATS QWIFD FC114 Issue B / HPLC
411			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
412			Ochratoxin A	ATS QWIFD FC54. Issue C / HPLC
413			Zearalenone [^]	ATS QWIFD FC94 Issue B / HPLC
414		Organic Contaminants	Acrylamide [^]	ATS QWIFD FC93 Issue B / LCMSMS
415		Radioactivity	Cs-134	ATS QWIFD FC196 Issue B / gamma-Ray spectrometry
416			Cs-137	ATS QWIFD FC196 Issue B / gamma-Ray spectrometry

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417			I-131	ATS QWIFD FC196 Issue B / gamma-Ray spectrometry
418	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; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022 Compendium of Methods for Microbiological Examinations of Foods, 5th Edition, Chapter 61
419	Swabs from Poultry and Farm Environment	Pathogens, Parasites & Toxins	Salmonella Enteritidis	ATS QWIMIC 149 Issue C
420			Salmonella spp.	ATS QWIMIC 149 Issue C
421	Animal Feed	Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
422			Deoxynivalenol	ATS QWIFD FC114 Issue B / HPLC
423			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
424			Ochratoxin A	ATS QWIFD FC54 Issue C / HPLC
425			Zearalenone	ATS QWIFD FC94 Issue B / HPLC
426		Organic Contaminants	Melamine	ATS QWIFD FC80 Issue B / Dilution / LCMSMS ATS QWIFD FC82 Issue B / SPE/ LCMSMS
427	RTE	Microbiological Indicators	Total Colony Count / Aerobic Plate Count @ 30/35°C	FDA-BAM Online Chapter 3: Jan 2001; ISO 4833-1: 2013 /AMD 1: 2022; ISO 4833-2: 2013 /AMD 1: 2022

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428		Pathogens, Parasites & Toxins	Coagulase Positive Staphylococcus aureus count	FDA-BAM Online Chapter 12: Mar 2016; ISO 6888-1:2021	
429			Escherichia coli count	FDA-BAM online Chapter 4: Oct 2020	
430			Escherichia coli O157:H7 (with serotype confirmation)^	AOAC Method No. 2000.14 / Neogen Reveal Microbial Screening Test	
431			Listeria monocytogenes	FDA-BAM Online Chapter 10: Apr 2022; ISO 11290-1: 2017; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
432			Norovirus (Genotype I & II)	ATS QWI MIC 143 Issue B	
433			Salmonella spp.	FDA-BAM Online Chapter 5: Nov 2022; ISO 6579-1: 2017 /AMD 1:2020; ATS QWIMIC 93A-B Issue C (RT-PCR); SOLUS	
434			Shigella spp.	ISO21567:2004	
435			Vibrio cholerae	FDA-BAM Online Chapter 9: May 2004	
436			Vibrio parahaemolyticus Count	FDA-BAM Online Chapter 9: May 2004	
437			Vibrio vulnificus	FDA-BAM Online Chapter 9: May 2004	
438			Food Additives	Benzoic Acid	ATS QWIFD FC01 Issue D / Steam Distillation / HPLC
439				Nitrate	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
440				Nitrite	ATS QWIFD FC24 Issue B / Cd Reduction / UV Spectrophotometer
441		Sorbic Acid		ATS QWIFD FC01 Issue D / Steam Distillation / HPLC	

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442			Sulphur Dioxide	AOAC 990.28 Section 47.3.43 / Optimised Monier Williams Method
443	Infant Foods	Mycotoxins	Aflatoxin BG (Aflatoxin B1, B2, G1, G2)	ATS QWIFD FC51 Issue B / HPLC
444			Aflatoxin M1	ATS QWIFD FC70 Issue B / HPLC; ATS QWIFD FC198 Issue A / LCMSMS
445			Deoxynivalenol	ATS QWIFD FC114 Issue B / HPLC
446			Fumonisin (FB1, FB2)	ATS QWIFD FC115 Issue B / HPLC-FLD
447			Ochratoxin A	ATS QWIFD FC54 Issue C / HPLC
448			Zearalenone	ATS QWIFD FC94 Issue B / HPLC

^ Indicates that the test parameter/area is granted conditional recognition