Bureau of Laboratory Quality Standards
Ministry of Public Health

This is to certify that

The laboratory of

Central Laboratory (Thailand) Co., Ltd.

(Samut Sakhon Branch)

23/13 Moo 9, Khok kham, Mueang Samut Sakhon,
Samut Sakhon 74000, Thailand

has been accepted as an
accredited laboratory complying with the ISO/IEC 17025 : 2017
and the requirements of the Bureau of Laboratory Quality Standards
The laboratory has been accredited for specific tests
listed in the scope within the field of

Food and Feeding Stuffs Testing

Patravee Soisangwa

(Dr. Patravee Soisangwan)
Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 21 April 2023
Valid Until : 20 April 2027 **Accreditation Number 1078/48**

The laboratory of Central Laboratory (Thailand) Co.,Ltd. (Samut Sakhon Branch) has been accepted as an accredited laboratory in the field of food and feeding stuffs testing for the following scopes.

No.	Type of Sample	Test	Method
1	Food*	1. Aerobic Plate Count (CFU)	- FDA BAM *Online*, 2001 (Chapter 3)
			- AOAC (2023) 990.12
			- AOAC (2023) 986.33
			- AOAC (2023) 989.10
		2. Coliforms	- FDA BAM *Online*, 2020 (Chapter 4)
		3. *Escherichia coli*	- AOAC (2023) 998.08
		(CFU, MPN, Detected or not detected)	- AOAC (2023) 991.14
		4. Faecal Coliforms (MPN, Detected or not detected)	FDA BAM *Online*, 2020 (Chapter 4)
		5. *Salmonella* spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
		6. Yeast & Mold	- FDA BAM *Online*, 2001 (Chapter 18)
		(CFU)	- AOAC (2023) 997.02
		7. *Vibrio parahaemolyticus* (MPN)	FDA BAM *Online*, 2004 (Chapter 9)
		8. *Vibrio cholerae*	- FDA BAM *Online*, 2004 (Chapter 9)
		(Detected or not detected)	- In-housed method TE-MI-006 based on FDA BAM *Online*, 2004 (Chapter 9)
		9. *Clostridium perfringens* (CFU, Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 16)

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No.	Type of Sample	Test	Method
1	Food*	10. Enterococci (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA), 5th Edition, 2015. (Chapter 10)
		11. *Staphylococcus aureus* (CFU, MPN, Detected or not detected)	- FDA BAM *Online*, 2016 (Chapter 12)
			- AOAC (2023) 2003.11
			- AOAC (2023) 2003.08
		12. *Listeria monocytogenes* (Detected or not detected)	ISO 11290-1:2017
		13. *Listeria* spp. (Detected or not detected)	ISO 11290-1:2017
		14. *Bacillus cereus* (CFU, MPN, Detected or detected)	FDA BAM *Online*, 2020 (Chapter 14)
		15. Enterobacteriaceae (CFU)	- Compendium of Methods for the Microbiological Examination of Foods (APHA),5th Edition, 2015 (Chapter 9)
			- AOAC (2023) 2003.01
2	Processed and raw material for food processing	16. *Staphylococcus aureus* (CFU)	AOAC (2023) 2003.07

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No.	Type of Sample	Test	Method
3	Canned food	-Sterility test 17. Incubation test canned at 35°C - Low acid canned foods 18. Flat sour mesophilic 19. Flat sour thermophiles 20. Mesophilic anaerobes 21. Putrefactive anaerobes 22. Thermophilic anaerobes - Acid canned food 23. Aciduric flat sour mesophiles 24. Aciduric flat sour thermophiles (Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 21 A)
		25. *Clostridium botulinum* (Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 17)
4	- Meat and meat products - Aquatic animal and aquatic animal products (fresh, chill, frozen, processed)	26. *Listeria monocytogenes* (Detected or not detected)	FDA BAM *Online*, 2017 (Chapter 10)
		27. *Salmonella spp.* (Detected or not detected)	FDA BAM *Online*, 2020 (Chapter 5)

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No.	Type of Sample	Test	Method
5	Aquatic animal and Aquatic animal product (fresh, chill, frozen, processed canned)	28. *Vibrio vulnificus* (MPN)	FDA BAM *Online*, 2004 (Chapter 9)
6	• Potable water - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process • Non-Potable water - Natural water - Ground water - Surface water - Aquaculture water - Water supply - Tap water - Water to be used in the factory - Brackish water • Ice	29. *Clostridium perfringens* (Detected or not detected)	ISO 14189:2013
		30. Aerobic Plate Count (CFU)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9215 A,B
		31. Coliforms 32. *Escherichia coli* 33. Faecal Coliforms (CFU, MPN, Detected or detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9221B, E, F and 9222 B, D, E
		34. *Pseudomonas aeruginosa* (CFU)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9213 E

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No.	Type of Sample	Test	Method
6	• Potable water - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process • Non-Potable water - Natural water - Ground water - Surface water - Aquaculture water - Water supply - Water to be used in the factory - Brackish water • Ice	35. *Staphylococcus aureus* (CFU, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9213 B
		36. *Salmonella* spp. (Detected or not detected)	ISO 19250:2010
		37. *Vibrio cholerae* (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9278
		38. Enterococcus (CFU, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 9230 B, C
7	Beverages in sealed container **	39. Coliforms 40. *Escherichia coli* (MPN, Detected or not detected)	FDA BAM *Online*, 2020 (Chapter 4)

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No.	Type of Sample	Test	Method
8	Swab	41. Aerobic Plate Count (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA) ,5th Edition, 2015 (Chapter 8)
		42. *Salmonella* spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
		43. *Bacillus cereus* (Detected or not detected)	In-house method TE-MI-079 in connected with : - ISO 21871:2006 - FDA BAM *Online*, 2020 (Chapter 14)
		44. *Clostridium perfringens* (Detected or not detected)	Compendium of Methods for the Microbiological Examination of Foods (APHA) ,5th Edition, 2015 (Chapter 33)
		45. *Escherichia coli* (Detected or not detected)	In-house method TE-MI-078 in connected with : - ISO 7251:2005 - FDA BAM *Online*, 2020 (Chapter 4)
		46. *Staphylococcus aureus* (Detected or not detected)	In-house method TE-MI-105 in connected with : - ISO 6888-3:2003 - FDA BAM Online, 2016 (Chapter 12)
9	Carcasses rinse	47. *Salmonella* spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020

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No.	Type of Sample	Test	Method
10	Feeding stuffs and raw material	48. Aerobic Plate Count (CFU)	FDA BAM *Online*, 2001 (Chapter 3)
		49. *Escherichia coli* (MPN)	FDA BAM *Online*, 2020 (Chapter 4)
		50. *Salmonella* spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
		51. Yeast and Mold (CFU)	AOAC (2023) 997.02
11	Meat and meat products (fresh, chill, frozen, processed)	52. Ash	In-house method TE-CH-041 based on AOAC (2023) 920.153
		53. Moisture	In-house method TE-CH-040 based on AOAC (2023) 950.46 (B)
		54. Total Nitrogen and Protein	In-house method TE-CH-042 based on AOAC (2023) 981.10
12	Food *	55. pH	In-house method TE-CH-092 based on AOAC (2023) 981.12
		56. Tin	In-house method TE-CH-135 based on AOAC (2023) 985.16

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No.	Type of Sample	Test	Method
12	Food *	57. Total Sugar	In-house method TE-CH-164 based on AOAC (2023) 925.35 (B)
		58. Vitamin A	In-house method TE-CH-024 based on Bull. Dept. Med. Sci. 1995;37 (1): 57-64
		59. Vitamin B1 60. Vitamin B2	In-house method TE-CH-057 in connected with : - AOAC (2023) 942.23 - Journal Agriculture Food Chemistry (1984), 32, p. 1326-1331,
		61. Vitamin C	In-house method TE-CH-120 based on Bull. Dept. Med. Sci.1998; 40 (3):347-357
		62. Vitamin E	In-house method TE-CH-403 based on Bull. Dept. Med. Sci. 1995;37 (1): 57-64
		63. Water Activity	In-house method TE-PH-047 based on AOAC (2023) 978.18
		64. Energy	Method of Analysis for Nutrition Labeling AOAC International; 1993, Page 8
		65. Carbohydrate	Method of Analysis for Nutrition Labeling AOAC International; 1993, Page 106
		66. Cholesterol	In-house method TE-CH-143 based on AOAC (2023) 994.10
		67. Calcium (Ca) 68. Sodium (Na) 69. Iron (Fe)	In-house method TE-CH-134 based on AOAC (2023) 984.27

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No.	Type of Sample	Test	Method
12	Food *	70. Arsenic (As) 71. Cadmium (Cd) 72. Chromium (Cr) 73. Mercury (Hg) 74. Nickel (Ni) 75. Lead (Pb) 76. Copper (Cu) 77. Zinc (Zn)	In-house method TE-CH-170 based on AOAC (2023) 999.10, 2015.01
		78. Vitamin D 79. Vitamin D2 80. Vitamin D3	- In-house method TE-CH-386 based on Journal of AOAC International Vol. 96, 2013, p. 1387-1399
			- In-house method TE-CH-386 based on Journal of AOAC International Vol. 86 No.2 (2003)
		81. Potassium (K)	In-house method TE-CH-134 based on AOAC (2023) 984.27
		82. Iodine	In-house method TE-CH-397 based on Journal of AOAC INTERNATIONAL VOL. 84. NO. 6, 2001

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No.	Type of Sample	Test	Method
12	Food *	Synthetic color 83. Tartrazine 84. Amaranth 85. Ponceau 4R 86. Sunset Yellow FCF 87. Allura Red AC 88. Carmoisine 89. Erythrosine 90. Indigo Carmine 91. Fast Green FCF 92. Brilliant Blue FCF	In-house method TE-CH-163 based on TIS (1987), 696
13	- Aquatic animal and aquatic animal product - Meat and meat products - Cereal and cereal products (fresh, chill, frozen, processed) - Fish sauce and Seasoning sauce	93. Sodium chloride	In-house method TE-CH-175 based on AOAC (2023) 937.09

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No.	Type of Sample	Test	Method
14	- Aquatic animal and aquatic animal product - Fruit and fruit products - Flour and flour product - Cereal and cereal products (fresh, chill, frozen, processed) - Creamer Butter - Oils and fats	94. Fatty acid	In-house method TE-CH-177 based on AOCS (2007) Ce1b-89
15	-Aquatic animal and aquatic animal product - Meat and meat products - Flour and flour product - Cereal and cereal products - Fruit and fruit products - Vegetable and vegetable Products (fresh, chill, frozen, processed)	95. Dietary fiber	In-house method TE-CH-076 based on AOAC (2023) 985.29

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No.	Type of Sample	Test	Method
16	Fat and oil	96. Arsenic (As) 97. Cadmium (Cd) 98. Lead (Pb) 99. Mercury (Hg) 100. Copper (Cu) 101. Chromium (Cr) 102. Nickel (Ni)	In-house method TE-CH-374 based on AOAC (2023) 999.10, 2015.01 and 2011.19
		103. Free Fatty Acid	AOCS (2017) Ca 5a-40
		104. Acid Value	AOCS (2017) Cd 3d-63
		105. Peroxide Value	AOCS (2017) Cd 8b-53
17	Feeding stuffs	106. Ash	AOAC (2023) 942.05
		107. Total Nitrogen and Protein	In-house method TE-CH-012 based on AOAC (2023) 981.10
		108. Moisture	AOAC (2023) 930.15
		109. Crude fiber	In-house method TE-CH-122 based on AOAC (2023) 978.10
		110. Fat	In-house method TE-CH-014 based on AOAC (2023) 954.02

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No.	Type of Sample	Test	Method
18	Flour and flour product	111. Moisture	In-house method TE-CH-336 based on AOAC (2023) 925.10
		112. Ash	In-house method TE-CH-335 based on AOAC (2023) 923.03
		113. Total Nitrogen and Protein	In-house method TE-CH-334 based on AOAC (2023) 920.87
		114. Fat	In-house method TE-CH-014 based on AOAC (2023) 922.06
19	Aquatic animal and aquatic animal product (fresh, chill, frozen, processed canned)	115. Ash	In-house method TE-CH-178 based on AOAC (2023) 938.08
		116. Total Nitrogen and Protein	In-house method TE-CH-179 based on AOAC (2023) 981.10
		117. Moisture	In-house method TE-CH-180 based on AOAC (2023) 950.46 (B)
		118. Nickel (Ni) 119. Chromium (Cr)	In-house method TE-CH-035 based on AOAC (2023) 999.10

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No.	Type of Sample	Test	Method
19	Aquatic animal and aquatic animal product (fresh, chill, frozen, processed canned)	120. Cadmium (Cd) 121. Lead (Pb) 122. Arsenic (As) 123. Total Arsenic (As)	In-house method TE-CH-035 based on Journal of Analyst, August Vol.119, 1994, Page 1683-1686
		124. Copper (Cu) 125. Zinc (Zn)	In-house method TE-CH-035 based on AOAC (2023) 999.10
		126. Mercury (Hg) 127. Total Mercury (Hg)	In-house method TE-CH-035 based on AOAC (2023) 974.14
		128. Total Volatile Bases Nitrogen (TVB-N)	Journal of the European Communities (1995), No L 97/84-97/87
		129. Fat	In-house method TE-CH-014 based on AOAC (2023) 948.15
		130. Trimethoprim and Ormetoprim	In-house method TE-CH-404 based on Journal of Chromatography A,898 (2000)
20	- Meat and meat products - Poultry and poultry products -Aquatic animal and aquatic animal product (fresh, chill, frozen and processed)	131. Chloramphenicol	- In-house method TE-CH-005 based on Chloramphenicol EIA,Euro Proxima B.V.5091CAP [23] 04.20
		132. Amphenicol 133. Chloramphenicol 134. Flofenicol	- In-house method TE-CH-027 based on Journal of Chromatography B, Vol.791 (2003)

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No.	Type of Sample	Test	Method
20	- Meat and meat products - Poultry and poultry products - Aquatic animal and aquatic animal product (fresh, chill, frozen and processed)	Nitrofuran Metabolites 135. 1-Aminohydantoin (AHD) 136. 3-Amino-2–oxazolidinone (AOZ) 137. Semicarbazide (SEM) 138. 3-Amino-5-morpholinomethyl-2-oxazolodinone (AMOZ)	- In-house method TE-CH-002 based on Journal of Chromatography B, Vol. 691 (1997) (Total Residues) - In-house method TE-CH-002 based on Journal of Chromatography B, Vol. 691 (1997), (Tissue Bound Residues)
21	Aquatic animal and aquatic animal product (fresh, chill, frozen and processed)	139. Malachite Green 140. Leuco-malachite Green 141. Crystal violet 142. Leuco-crystal violet	In-house method TE-CH-070 based on Journal of AOAC International Vol.88, No.3 (2005)
22	Aquatic animal and aquatic animal product (fresh, chill, frozen and processed canned)	143. Histamine	In-house method TE-CH-060 based on AOAC (2023) 977.13
23	- Shrimp and Shrimp products - Fish and fish products (fresh, chill, frozen and processed)	Tetracycline group: 144. Oxytetracycline 145. Tetracycline 146. Chlortetracycline 147. Doxycycline	In-house method TE-CH-095 based on AOAC (2023) 995.09

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No.	Type of Sample	Test	Method
24	- Animal tissue (fresh, chill, frozen) - Animal urine	Beta-agonist 148. Salbutamol 149. Clenbuterol 150. Ractopamine	In-house method TE-CH-044 based on Journal of chromatography B, Vol. 813 2004.
25	- Meat and meat products - Poultry and poultry products - Aquatic animal and aquatic animal products (fresh, chill, frozen and processed)	Sulfonamide group: 151. Sulfanilamide (SA) 152. Sulfadiazine (SDZ) 153. Sulfapyridine (SPD) 154. Sulfathiazole (STZ) 155. Sulfamerazine (SMR) 156. Sulfamethazine (SMZ) or Sulfadimidine (SDD) 157. Sulfamonomethoxine (SMONO) 158. Sulfachlopyridazine (SCPD) 159. Sulfamethoxazole (SMXZ) 160. Sulfisoxazole (SIX) 161. Sulfaquinoxaline (SQX) 162. Sulfadimethoxine (SDMX)	In-house method TE-CH-061 based on Journal of Chromatography A, 898 (2000)

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No.	Type of Sample	Test	Method
25	- Meat and meat products - Poultry and poultry products - Aquatic animal and aquatic animal products (fresh, chill, frozen and processed)	Quinolones group: 163. Flumequine 164. Nalidixic acid 165. Oxolinic acid Fluoroquinolones group: 166. Ciprofloxacin 167. Enrofloxacin 168. Norfloxacin 169. Sarafloxacin 170. Danofloxacin 171. Difloxacin 172. Ofloxacin 173. Marbofloxacin 174. Enoxacin 175. Lomefloxacin 176. Sparfloxacin 177. Orbifloxacin 178. Levofloxacin 179. Pefloxacin 180. Pazufloxacin	In-house method TE-CH-115 based on Journal of Chromatography A, Vol. 952, 2002

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No.	Type of Sample	Test	Method
26	Serum	Sulfonamide group: 181. Sulfanilamide (SA) 182. Sulfadiazine (SDZ) 183. Sulfapyridine (SPD) 184. Sulfathiazole (STZ) 185. Sulfamerazine (SMR) 186. Sulfamethazine (SMZ) or Sulfadimidine (SDD) 187. Sulfamonomethoxine (SMONO) 188. Sulfachlopyridazine (SCPD) 189. Sulfamethoxazole (SMXZ) 190. Sulfisoxazole (SIX) 191. Sulfaquinoxaline (SQX) 192. Sulfadimethoxine (SDMX)	In-house method TE-CH-167 based on Journal of Liquid Chromatography,18 (5) (1995)
27	Feeding stuffs	- Aflatoxins 193. B1 194. B2 195. G1 196. G2 197. Total Aflatoxins	In-house method TE-CH-252 based on AOAC (2023) 994.08 and VICAM Afla Test Instruction Manual May 5, 1999

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No.	Type of Sample	Test	Method
27	Feeding stuffs	198. Ochratoxins A	In-house method TE-CH-392 based on AOAC (2023) 2000.03
28	Cereal	- Aflatoxins 199. B1 200. B2 201. G1 202. G2 203. Total Aflatoxins	In-house method TE-CH-025 based on AOAC (2023) 991.31 and 994.08
29	- Aquatic animal and aquatic animal products (fresh, chill, frozen, processed) - Vegetable and vegetable products - Fruit and fruit products except onions, garlic and cabbage (fresh, chill, frozen, processed) - Starch	204. Sulphur Dioxide	In-house method TE-CH-018 based on AOAC (2023) 990.28
30	Food ***	205. Benzoic acid 206. Sorbic acid	Nordic Committee on food analysis, (1997) No. 124

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No.	Type of Sample	Test	Method
31	Aquatic animal and aquatic animal product (fresh, chill, frozen, processed)	207. Total Phosphorus as P_2O_5	In-house method TE-CH-059 based on AOAC (2023) 986.24
32	● Potable water - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process ● Non-Potable water -Natural water -Ground water -Surface water - Aquaculture water - Water supply - Tap water - Water to be used in the factory - Brackish water ● Ice	208. Nickel (Ni) 209. Selenium (Se) 210. Cobalt (Co) 211. Copper (Cu) 212. Aluminium (Al) 213. Zinc (Zn) 214. Silver (Ag) 215. Barium (Ba) 216. Cadmium (Cd) 217. Lead (Pb) 218. Chromium (Cr) 219. Manganese (Mn) 220. Iron (Fe) 221. Arsenic (As)	In-house method TE-CH-037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 3030E, Part 3125B

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No.	Type of Sample	Test	Method
32	● Potable water - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process ● Non-Potable water -Natural water -Ground water -Surface water - Aquaculture water - Water supply - Tap water - Water to be used in the factory - Brackish water ● Ice	222. Mercury (Hg)	In-house method TE-CH-181 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 3030 E, EPA (2002) Method 1631
		223. Phenol	TIS 257:1978 No.2, p. 60-68
		224. Odor	TIS 257:1978, No.2, p. 5
		225. Anionic Surfactants as Methylene Blue Active Substances (MBAS): MBAS, calculated as Linear Alkylbenzene Sulfonate (LAS) MW = 444.56	In-house method TE-CH-104 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 5540 C
		226. Sulfate	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500 – $SO2^{-4}$ E
		227. Fluoride	In-house method TE-CH-066 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500- F– D

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		229. Color	In-house method TE-CH-114 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2120 C
		230. Turbidity	In-house method TE-CH-145 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2130 B
		231. pH	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500- H+ B
		232. Total Solids	In-house method TE-CH-062 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2540 B

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		234. Chemical Oxygen Demand (COD)	In-house method TE-CH-125 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 5220 C
		235. Biochemical Oxygen Demand (BOD)	In-house method TE-CH-124 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 5210 B
		236. Calcium (Ca)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 3500-Ca B
		237. Total Dissolve Solids	In-house method TE-CH-093 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2540 C, Dried at 180 °C

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		239. Nitrite as Nitrogen	In-house method TE-CH-113 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-NO_2-B
		240. Total Suspended Solids	In-house method TE-CH-054 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2540 D
		241. Ammonia Nitrogen	In-house method TE-CH-140 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-NH_3 C

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		243. Total Kjeldahl Nitrogen (TKN)	In-house method TE-CH-203 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-Norg B
		244. Alkalinity	In-house method TE-CH-117 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2320 B
		245. Magnesium (Mg)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 3500-Mg B
		246. Total Hardness as $CaCO_3$	In-house method TE-CH-053 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2340 C
		247. Total Ammonia	In-house method TE-CH-088 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-NH_3 F

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No.	Type of Sample	Test	Method
34	Waste water	248. Nickel (Ni) 249. Selenium (Se) 250. Cobalt (Co) 251. Copper (Cu) 252. Aluminium (Al) 253. Zinc (Zn) 254. Silver (Ag) 255. Barium (Ba) 256. Cadmium (Cd) 257. Lead (Pb) 258. Manganese (Mn) 259. Iron (Fe) 260. Arsenic (As) 261. Chromium (Cr)	In-house method TE-CH-037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 3030 E, Part 3125 B
		262. Mercury (Hg)	In-house method TE-CH-181 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 3030 E, EPA (2002) Method 1631

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No.	Type of Sample	Test	Method
34	Waste water	263. Color (ADMI Unit)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2120 F
		264. Sulfide	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-S^{2-} F
		265. Oil & Grease	In-house method TE-CH-087 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 5520B.
35	Vegetables and fruits high water and chlorophyll content	Organochlorine Pesticides: 266. aldrin (HHDN) 267. alpha-BHC or alpha-HCH 268. alpha-Chlordane 269. alpha-Endosulfan 270. beta-BHC or Beta-HCH 271. beta-Endosulfan 272. dicofol 273. dieldrin 274. endosulfan sulfate	In-house method TE-CH-030 based on Steinwandter, H.1985. Universal 5 min on-line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals. Fresenius Z. Anal. Chem. No. 322,1985, Page 752-754 .

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No.	Type of Sample	Test	Method
35	Vegetables and fruits high water and chlorophyll content	275. endrin 276. gamma-BHC or lindane 277. gamma-Chlordane 278. hept.epoxide 279. heptachlor 280. *o,p'*-DDD 281. *o,p'*-DDE 282. *o,p'*-DDT 283. *p,p'*-DDD (TDE) 284. *p,p'*-DDT Pyrethroid Pesticides : 285. bifenthrin 286. fenvalerate 287. permethrin 288. cyfluthrin 289. cypermethrin 290. deltamethrin 291. lambda- cyhalothrin	In-house method TE-CH-030 based on Steinwandter, H.1985. Universal 5 min on-line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals. Fresenius Z. Anal. Chem. No. 322,1985, Page 752-754 .

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No.	Type of Sample	Test	Method
33	Vegetables and fruits high water and chlorophyll content	Organophosphate Pesticides: 292. chlorpyrifos 293. DDVP (or Dichlorvos) 294. diazinon 295. dicrotophos 296. dimethoate 297. malathion 298. methamidophos 299. mevinphos 300. monocrotophos 301. parathion-methyl 302. pirimiphos-ethyl 303. pirimiphos-methyl 304. azinphos-ethyl 305. EPN 306. ethion 307. fenitrothion 308. parathion-ethyl 309. phosalone 310. profenofos 311. prothiofos 312. triazophos	In-house method TE-CH-030 based on Steinwandter, H.1985. Universal 5 min on-line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals. Fresenius Z. Anal. Chem. No. 322,1985, Page 752-754.

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No.	Type of Sample	Test	Method
35	Vegetables and fruits high water and chlorophyll content	Carbamate Pesticides : 313. aldicarb 314. aldicarb-sulfone 315. aldicarb-sulfoxide 316. carbaryl 317. carbofuran 318. carbofuran-3-hydroxy 319. fenobucarb 320. isoprocarb 321. methiocarb 322. methomyl 323. oxamyl	In-house method TE-CH-246 based on Steinwandter, H.1985.Universal 5 min on-line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals. Fresenius Z. Anal. Chem. No. 322,1985, Page 752-754.

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Food*

1. Meat and meat products (fresh, frozen, processed)
2. Poultry and poultry products (fresh, frozen, processed)
3. Aquatic animal and aquatic animal product (fresh, frozen, processed)
4. Fruit and fruit products (fresh, frozen, processed)
5. Vegetable and vegetable products (fresh, frozen, processed)
6. Flour and flour products
7. Cereal and cereal products
8. Nut and nut products
9. Milk and milk products
10. Egg and egg products
11. Seaweed and seaweed products
12. Noodle and noodle products
13. Tea and Coffee
14. Ready-to-Cook Foods
15. Ready-to-Eat Foods
16. Fish sauce and Seasoning sauce
17. Condiment, Spice curry and Herb
18. Beverages
19. Food additive
20. Cookies, Biscuit, Cracker, Wafer and Snack
21. Candy, Jam and Jelly
22. Honey
23. Ice cream
24. Dietary supplement products

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25. Infant food

26. Canned food

27. Creamer, Butter, Oil and Fat

Beverages in sealed container **

1.Water that contains carbon dioxide or oxygen

2.Beverage that contain or are made from fruit, plants or vegetables, regardless of whether they contain carbon dioxide or oxygen

3.Beverage that contain or are made from non-fruit, plants, vegetable, or vegetables ingredients, regardless of whether they contain carbon dioxide or oxygen is mixed

4. Beverage as in (2) or (3) concentrated type, which must be diluted before consumption

5. Beverage as stipulated in (2) or (3) in dried form

Food***

1. Condiment, Fish sauce and Seasoning sauce

2. Beverage

3.Aquatic animal and aquatic animal products (Fresh, Frozen, Processed)

4. Fruit products

5. Bakery products

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