Bureau of Laboratory Quality Standards
Ministry of Public Health

This is to certify that

The laboratory of

Central Laboratory (Thailand) Co., Ltd. Songkhla Branch

9/116 Kanchanawanich Road, Hatyai, Hatyai,

Songkhla 90110, 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 Soisangwan

(Dr. Patravee Soisangwan)

Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 24 December 2021

Valid Until : 23 December 2025 **Accreditation Number 1085/49**

The laboratory of Central Laboratory (Thailand) Co. Ltd. Songkhla 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. Total Dietary Fiber	AOAC (2023) 985.29
		2. Total Energy	Journal of AOAC International, 1993, P.106
		3. Total Carbohydrate	Journal of AOAC International, 1993, P.8
		4. Cholesterol	In-house method TE-CH-143 based on AOAC (2023) 976.26
		5. Total Sugar	AOAC (2023) 925.35 (B)
		6. Total Phosphorus	AOAC (2023) 986.24
		7. Total Phosphorus (as P_2O_5)	In-house method TE-CH-312 based on Pearson's Chemical Analysis of Foods, Eighth Edition, 1981, P.29-31 USA
		8. Sulphur dioxide	AOAC (2023) 990.28
		9. Sorbic acid 10. Benzoic acid	Nordic Committee on Food Analysis., No.124, 2nd Edition, 1997, P.1-7
		11. Histamine	AOAC (2023) 977.13
		12. Vitamin A (Retinol)	In-house method TE-CH-022 based on Bull. Dept. Med. Sci. 1995; 37(1): P.57-64
		13. Vitamin B2 (Riboflavin)	In-house method TE-CH-225 based on Journal Agriculture Food Chemistry (1984) 32, P.1326-1341
		14. Vitamin C	In-house method TE-CH-177 based on Bull. Dept. Med. Sci.1998; 40(3): P.347-357

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Reviewed by Head of Laboratory Accreditation Section Saovanee Aromsook. (Ms.Saovanee Aromsook)

The laboratory of Central Laboratory (Thailand) Co. Ltd. Songkhla 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*	15. Aflatoxin B_1 16. Aflatoxin B_2 17. Aflatoxin G_1 18. Aflatoxin G_2	In-house method TE-CH-343 based on AOAC (2023) 991.31
		19. Water Activity (aw)	In-house method TE-PH-019 based on AOAC (2023) 978.18
2.	- Food* - Beverages in Sealed Container*	20. Arsenic (As) 21. Lead (Pb) 22. Mercury (Hg) 23. Cadmium (Cd)	In-house method TE-CH-035 based on AOAC (2023) 974.14, 986.15 and 999.10
		24. Tin (Sn)	In-house method TE-CH-135 based on AOAC (2023) 985.16
3.	Cereal	25. Ash	AOAC (2023) 923.03
4.	Baked Products	26. Ash	AOAC (2023) 935.39
5.	Rice, Flour, Cereal and Products	27. Fat	AOAC (2023) 922.06
6.	Seafood and seafood products	28. Ash	AOAC (2023) 938.08
		29. Crude Fiber	In-house method TE-CH-122 based on AOAC (2023) 978.10
		30. Moisture	In-house method TE-CH-180 based on AOAC (2023) 950.46 (B)
		31. Fat	AOAC (2023) 948.15
		32. Water Activity (aw)	In-house method TE-PH-019 based on Journal of AOAC (2023) 978.18

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No.	Type of Sample	Test	Method
7.	- Food** - Oil	33. Fatty acid profile	In-house method TE-CH-208 based on AOAC (2023) 996.06
8.	- Bird's Nest - Bird's Nest Drink	34. Nitrite (NO_2)	In-house method TE-CH-303 based on AOAC (2023) 973.31
		35. Arsenic (As) 36. Lead (Pb) 37. Mercury (Hg) 38. Cadmium (Cd)	In-house method TE-CH-356 based on AOAC (2023) 999.10
		39. Moisture	In-house method TE-CH-358 based on AOAC (2023) 931.04 (A)
9.	Sugar confectionary mixture	40. Moisture	In-house method TE-CH-357 based on AOAC (2023) 925.45
10.	Meat and meat product	41. Moisture	AOAC (2023) 950.46 (B)
11.	- Meat and Meat product - Seafood and seafood products	42. Protein	In-house method TE-CH-042 based on AOAC (2023) 981.10
12	Aquatic animals and aquatic animals products	43. TVB-N	In-house method TE-CH 196 based on Journal of European Union 2019
		44. Lead (Pb) 45. Mercury (Hg) 46. Cadmium (Cd)	In-house method TE-CH-035 based on AOAC (2023) 974.14, 986.15 and 999.10
13	- Food* - Pet food	47. Vitamin B1 (Thiamine)	In-house method TE-CH-311 based on Journal of AOAC International, Vol 85, No.4, 2002
		48. Taurine	In-house method TE-CH-299 based on AOAC (2023) 999.12
		49. Protein	In-house method TE-CH-042 based on AOAC (2023) 981.10

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No.	Type of Sample	Test	Method
14	- Food* - Pet food - Beverages in Sealed Container*	50. Cadmium (Cd) 51. Copper (Cu) 52. Iron (Fe) 53. Zinc (Zn) 54. Manganese (Mn) 55. Aluminium (Al) 56. Sodium (Na) 57. Potassium (K) 58. Magnesium (Mg) 59. Calcium (Ca)	In-house method TE-CH-134 based on AOAC (2023) 984.27, 999.10 and 999.11
15.	Feeding stuffs and raw material	60. Ash	AOAC (2023) 942.05
16.	Feeding stuffs and raw material	**Melamine and Analogues** 61. Melamine 62. Cyanuric Acid 63. Ammelide 64. Ammeline	In-house method TE-CH-361 based on Laboratory Information Bulletin LIB, No. 4421, Volume 24, October 2008
		65. Nitrogen and Protein	In-house method TE-CH-012 based on AOAC (2023) 981.10
		66. Aflatoxin B_1 67. Aflatoxin B_2 68. Aflatoxin G_1 69. Aflatoxin G_2	In-house method TE-CH-025 based on AOAC (2023) 991.31 and 971.22
		Nitrofurans (Parent Drug) 70. Nitrofurazone (NFZ) 71. Nitrofurantoin (NFT) 72. Furazolidone (FZD) 73. Furaltadone (FTD)	In-house method TE-CH-001 based on Journal of Chromatography A, 771 (1997), page 349-354

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No.	Type of Sample	Test	Method
17.	- Feeding stuffs and raw Material - Pet food	74. Crude Fiber	In-house method TE-CH-122 based on AOAC (2023) 978.10
18.	Pet food	75. Fat	AOAC (2023) 954.02
19.	Vegetables and Fruits (High water and low or no chlorophyll content)	**Pyrethroid group** 76. bifenthrin 77. cyfluthrin 78. cypermethrin 79. deltamethrin 80. fenvalerate 81. lambda-cyhalothrin 82. permethrin	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by GC-μECD Technique
		Organochlorine group 83. aldrin (HHDN) 84. alpha-BHC or alpha-HCH 85. alpha-Endosulfan 86. beta-BHC or beta-HCH 87. beta-Endosulfan 88. dieldrin (HEOD) 89. endosulfan-sulfate 90. endrin 91. heptachlor 92. heptachlor-endo-epoxide 93. lindane 94. o,p' –DDD 95. o,p'– DDE 96. p,p' - DDT	

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No.	Type of Sample	Test	Method
19.	Vegetables and Fruits (High water and low or no chlorophyll content)	**Organophosphate group** 97. chlorpyrifos 98. diazinon 99. dicrotophos 100. dimethoate 101. fenitrothion 102. malathion 103. methamidophos 104. mevinphos 105. monocrotophos 106. parathion-methyl 107. pirimiphos-ethyl 108. pirimiphos-methyl 109. profenophos 110. prothiophos 111. triazophos	In-house method TE-CH-031 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by GC-FPD Technique
		Carbamate group 112. aldicarb 113. aldicarb-sulfone 114. aldicarb-sulfoxide 115. carbaryl 116. carbofuran 117. fenobucarb 118. isoprocarb 119. methiocarb 120. methomyl 121. oxamyl	In-house method TE-CH-246 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by LC-MS Technique

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No.	Type of Sample	Test	Method
20.	Vegetables and Fruits (High water and High acid content)	**Organochlorine Groups** 122. aldrin (HHDN) 123. alpha-BHC or alpha- HCH 124. alpha-Endosulfan 125. beta-BHC or beta-HCH 126. beta-Endosulfan 127. dieldrin (HEOD) 128. endosulfan-sulfate 129. endrin 130. heptachlor 131. heptachlor-endo-epoxide 132. lindane 133. o,p'-DDD 134. o,p'-DDE 135. p,p'-DDT	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by GC-μECD Technique
		Pyrethroid group 136. bifenthrin 137. cyfluthrin 138. cypermethrin 139. deltamethrin 140. fenvalerate 141. lambda-cyhalothrin 142. permethrin	

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No.	Type of Sample	Test	Method
20.	Vegetables and Fruits (High water and High acid content)	**Organophosphate group** 143. chlorpyrifos 144. diazinon 145. dicrotophos 146. dimethoate 147. fenitrothion 148. malathion 149. methamidophos 150. mevinphos 151. monocrotophos 152. parathion-methyl 153. pirimiphos-ethyl 154. pirimiphos-methyl 155. profenophos 156. prothiophos 157. triazophos	In-house method TE-CH-031 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by GC-FPD Technique

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No.	Type of Sample	Test	Method
21.	Vegetables and Fruits (High water and High chlorophyll content)	**Organochlorine group** 158. aldrin (HHDN) 159. alpha-BHC or alpha-HCH 160. alpha-Endosulfan 161. beta-BHC or beta-HCH 162. beta-Endosulfan 163. delta-BHC or delta-HCH 164. dieldrin (HEOD) 165. endosulfan-sulfate 166. endrin 167. heptachlor 168. heptachlor-endo-epoxide 169. lindane 170. o,p'-DDD 171. o,p'-DDE 172. o,p'-DDT 173. p,p'-DDT	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by GC-μECD Technique
		Pyrethroid group 174. bifenthrin 175. cyfluthrin 176. cypermethrin 177. deltamethrin 178. fenvalerate 179. lambda-cyhalothrin 180. permethrin	

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No.	Type of Sample	Test	Method
21.	Vegetables and Fruits (High water and High chlorophyll content)	**Organophosphate group** 181. chlorpyrifos 182. chlorpyrifos-methyl 183. diazinon 184. dichlorvos or DDVP 185. dicrotophos 186. dimethoate 187. ethion 188. fenitrothion 189. malathion 190. methamidophos 191. mevinphos 192. parathion-ethyl 193. parathion-methyl 194. pirimiphos-ethyl 195. pirimiphos-methyl 196. profenophos 197. prothiophos	In-house method TE-CH-031 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by GC-FPD Technique
		Carbamate group 198. aldicarb 199. aldicarb-sulfone 200. aldicarb-sulfoxide 201. carbaryl 202. carbofuran 203. fenobucarb 204. isoprocarb 205. methiocarb 206. methomyl 207. oxamyl	In-house method TE-CH-246 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754 by LC-MS Technique

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No.	Type of Sample	Test	Method
22.	Aquatic animal	**Fluoroquinolone group** 208. ciprofloxacin 209. danofloxacin 210. difloxacin 211. enrofloxacin 212. marbofloxacin 213. norfloxacin 214. ofloxacin 215. sarafloxacin	In-house method TE-CH-115 based on Journal of Chromatography A., (2002), Vol.952, page 121-129
		Quinolone group 216. flumequine 217. nalidixic acid 218. oxolinic acid	In-house method TE-CH-115 based on Journal of Chromatography A., (2002), Vol.952, page 121-129.
		219. Malachite Green 220. Leuco-malachite Green 221. Crystal Violet 222. Leuco-crystal Violet	Journal of AOAC International, Vol.88, No.3, 2005
		223. Oxolinic acid	In-house method TE-CH-004 based on Journal of Assoc. Off. Anal. Chem. Vol.74, No.4, 1991
		Tetracycline group 224. chlortetracycline 225.doxycycline 226. oxytetracycline 227. tetracycline	In-house method TE-CH-200 based on AOAC (2023) 995.09

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No.	Type of Sample	Test	Method
22.	Aquatic animal	**Cephalosporins** 228. cefalexin 229. cefotaxime 230. cefpodoxime 231. cefquinome 232. ceftiofur 233. ceftriaxone	In-house method TE-CH-390 based on Journal of Chromatography B., 899 (2012), page 57-65
23.	Aquatic animal and Aquatic animal products	234. Florfenicol 235. Difloxacin 236. Erythromycin	In-house method TE-CH-256 based on Biosci. Biotechnol. Biochem 70 (1) 2006
24.	Animal tissue	237. Ash	AOAC (2023) 920.153
		Nitrofuran metabolites 238. 1-Aminohydantoin (AHD) 239. 3-Amino-2-oxazolidinone (AOZ) 240. 3-Amino-5-morpholinomethyl-2- oxazolidinone (AMOZ) 241. semicarbazide (SEM)	In-house method TE-CH-002 based on Journal of Chromatography B., (1997), Vol.691, page 87-94 (Tissue Bound Residues and Total Residues)
		242. Chloramphenicol	Euro Proxima B. V, 5091 CAP (23) 04.20
			In-house method TE-CH-027 based on Journal of Chromatography B., (2003), Vol.791, page 31-38

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No.	Type of Sample	Test	Method
25.	Animal tissue and Animal tissue products	**Sulfonamide group** 243. ormetoprim (OMP) 244. sulfachloropyridazine (SCPD) 245. sulfadiazine (SDZ) 246. sulfadimethoxine (SDM) 247. sulfamerazine (SMR) 248. sulfamethazine (SMZ) 249. sulfamethoxazole (SMXZ) 250. sulfamonomethoxine (SMONO) 251. sulfapyridine (SPD) 252. sulfaquinoxaline (SQX) 253. sulfathiazole (STZ) 254. sulfisoxazole (SIX) 255. trimethoprim (TMP)	In-house method TE-CH-156 based on Analytical chimica Acta, 546 (2005), page 174-181
26.	Shrimp	256. Oxytetracycline	In-house method TE-CH-003 based on AOAC (2023) 995.09
		257. Oxolinic acid	In-house method TE-CH-004 based on Journal of Assoc. Off. Anal. Chem. Vol.74, No.4, 1991
27.	- Food* - Beverages in Sealed Container* - Seasoning - Feeding stuff	258. Salt (as Sodium Chloride)	In-house method TE-CH-175 based on AOAC (2023) 937.09

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No.	Type of Sample	Test	Method
28.	- Acidified Foods - Flour and Flour products - Baked Products - Bread - Macaroni Products	259. pH	AOAC (2023) 981.12, 943.02, 935.39, 945.42 and 940.23
29.	Shrimp (Freeze)	260. White Spot Syndrome Virus (WSSV)	In-house method TE-MO-001 based on WOAH (2023), Manual of Diagnostic Tests for Aquatic Animals. (Chapter 2.2.8.)
		261. White Spot Syndrome Virus (WSSV)	In-house method TE-MO-002 based on method of CSIRO-Australian Animal Health Laboratory (AAHL) : 2015
		262. Yellow Head Virus (YHV)	In-house method TE-MO-003 based on Tang and Lightner. Development of real-time PCR assays for detection of white spot syndrome virus, yellow head virus, Taura syndrome virus, and infectious hypodermal and hematopoietic necrosis virus in penaeid shrimp (2001)
		263. Yellow Head Virus (YHV)	In-house method TE-MO-004 based on method of OIE Reference Laboratory; CSIRO-Australian Animal Health Laboratory (AAHL): 2015

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No.	Type of Sample	Test	Method
29.	Shrimp (Freeze)	264. Infectious Hypodermal and Hematopoietic Necrosis Virus (IHHNV)	In-house method TE-MO-005 based on WOAH. (2023), Manual of Diagnostic Tests for Aquatic Animals. (Chapter 2.2.4.)
		265. Taura syndrome virus (TSV)	In-house method TE-MO-006 based on WOAH. (2023), Manual of Diagnostic Tests for Aquatic Animals. (Chapter 2.2.7.)
30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	266. Hardness	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 2340 C
		267. Nitrate	AOAC (2023) 973.50
		268. Anionic Surfactants as Methylene Blue Active Substances (MBAS) - MBAS, calculated as Linear Alkylbenzene Sulfonate (LAS), MW = 444.56 - MBAS as ABS, Calculated as Linear Alkylbenzene Sulfonate (LAS), MW = 444.56	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 5540 C

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No.	Type of Sample	Test	Method
30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	269. Cyanide	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-CN^- E and 4500-CN^- H
		270. Total Dissolved Solid	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 2540 C
		271. Fluoride	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-F^- D
		272. Total Solid	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 2540 B
		273. Aluminium (Al) 274. Barium (Ba) 275. Cadmium (Cd) 276. Copper (Cu) 277. Chromium (Cr) 278. Iron (Fe) 279. Lead (Pb) 280. Manganese (Mn) 281. Silver (Ag) 282. Zinc (Zn) 283. 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 3120

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No.	Type of Sample	Test	Method
30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	284. Selenium (Se) 285. Nickel (Ni) 286. Antimony (Sb) 287. Beryllium (Be)	In-house method TE-CH-037 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 3120
		288. Aluminium (Al) 289. Barium (Ba) 290. Cadmium (Cd) 291. Copper (Cu) 292. Chromium (Cr) 293. Iron (Fe) 294. Lead (Pb) 295. Manganese (Mn) 296. Silver (Ag) 297. Zinc (Zn) 298. Arsenic (As) 299. Selenium (Se) 300. Nickel (Ni) 301. Antimony (Sb) 302. Beryllium (Be) 303. Tin (Sn)	In-house method TE-CH-038 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 3125

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30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	**Polychlorinated Biphenyls (PCBs)** 304. PCB-28 305. PCB-52 306. PCB-101 307. PCB-138 308. PCB-153 309. PCB-180	In-house method TE-CH-254 based on EPA (2007) 8082A
		Organochlorine group 310. aldrin (HHDN) 311. alpha-BHC or alpha- HCH 312. alpha-Endosulfan 313. beta-BHC or beta-HCH 314. beta-Endosulfan 315. delta-BHC or delta-HCH 316. dieldrin (HEOD) 317. endosulfan-sulfate 318. endrin 319. heptachlor 320. heptachlor-endo-epoxide 321. lindane 322. o,p'-DDD 323. o,p'-DDE 324. o,p'-DDT	In-house method TE-CH-131 based on AOAC (2023) 990.06

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The laboratory of Central Laboratory (Thailand) Co. Ltd. Songkhla 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
30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	**Pyrethroids group** 325. bifenthrin 326. cyfluthrin 327. cypermethrin 328. deltamethrin 329. fenvalerate 330. lambda-cyhalothrin 331. permethrin	In-house method TE-CH-131 based on AOAC (2023) 990.06
		Organophosphate group 332. chlorpyrifos 333. chlorpyrifos-methyl 334. diazinon 335. dimethoate 336. EPN 337. ethion 338. fenitrothion 339. malathion 340. mevinphos 341. parathion-ethyl 342. parathion-methyl 343. pirimiphos-ethyl 344. pirimiphos-methyl 345. profenophos 346. prothiophos 347. triazophos	In-house method TE-CH-129 based on AOAC (2023) 991.07

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No.	Type of Sample	Test	Method
30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	**Carbamate group** 348. aldicarb 349. aldicarb-sulfone 350. carbaryl 351. carbofuran 352. fenobucarb 353. isoprocarb 354. methiocarb 355. methomyl 356. oxamyl	In-house method TE-CH-132 based on EPA (1999) Method 632
		357. Sulfate	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-SO_4^{2-} E
		358. Color	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023. Part 2120 B and 2120 C
		359. Turbidity	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 2130 B

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30.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	360. Boron (B) 361. Calcium (Ca) 362. Magnesium (Mg) 363. Sodium (Na) 364. Potassium (K)	In-house method TE-CH-037 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 3120
		365. Phenol	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 5530 C
		366. Odour	TIS 257-1978 Vol.2. P.5
31.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water - Natural water - Aquaculture water - Brackish water - Sea water • Saline • Wastewater from aquaculture	367. pH	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-H^+B
		368. Chloride	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-Cl^- B
		369. Total phosphorus	In-house method TE-CH-263 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-P E

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No.	Type of Sample	Test	Method
31.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water - Natural water - Aquaculture water - Brackish water - Sea water • Saline • Wastewater from aquaculture	370. Total Nitrogen	In-house method TE-CH-266 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-N
		371. Ammonia Nitrogen (NH_3-N) 372. Total Ammonia Nitrogen	In-house method TE-CH-265 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 4500-NH_3 F
		373. 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
32.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Natural water - Aquaculture water • Wastewater	374. 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 3125 and 3500-Hg

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No.	Type of Sample	Test	Method
33.	• Non-Potable water - Natural water - Aquaculture water - Sea water • Wastewater	375. 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
34.	• Non-Potable water - Sea water • Wastewater	376. Nitrite	A practical handbook of seawater analysis, Fisheries Research Board of Canada Ottawa, 1972, II.7., P.77-80
35.	Food*	377. Aerobic Plate Count (CFU)	FDA BAM *Online*, 2001 (Chapter 3)
		378. Coliforms (MPN)	FDA BAM *Online*, 2020 (Chapter 4)
		379. Fecal Coliforms (MPN)	
		380. *Escherichia coli* (MPN)	
		381. Coliforms (CFU)	AOAC (2023) 998.08 and 991.14
		382. *Escherichia coli* (CFU)	
		383. *Staphylococcus aureus* (CFU, MPN, Detected or not detected)	FDA BAM *Online*, 2016 (Chapter 12)
		384. *Vibrio cholera* (Detected or not detected)	FDA BAM *Online*, 2004 (Chapter 9)
		385. *Vibrio parahaemolyticus* (MPN)	FDA BAM *Online*, 2004 (Chapter 9)

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No.	Type of Sample	Test	Method
35.	Food*	386. *Listeria monocytogenes* (Detected or not detected)	ISO 11290-1: 2017 (E)
		387. Yeasts and Molds (CFU)	FDA BAM *Online*, 2001 (Chapter 18)
		388. *Clostridium perfringens* (CFU, Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 16)
		389. *Clostridium botulinum* (Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 17)
		390. *Bacillus cereus* (CFU, MPN)	FDA BAM *Online*, 2020 (Chapter 14)
		391. Enterobacteriaceae (CFU)	ISO 21528-2: 2017 (E)
		392. Enterococci (CFU)	Compendium of Method for the Microbiology Examination of Foods, (APHA), 5th Edition, 2015, Chapter 10
		393. *Escherichia coli* (MPN)	ISO 7251: 2005 and FDA BAM *Online*, 2020 (Chapter 4)
		394. Total Plate Count (CFU)	ISO 4833: 2013 (E)
		395. *Salmonella* spp. (Detected or not detected)	ISO 6579-1: 2017/ Amd 1: 2020 (E)
36.	- Bird's Nest - Bird's Nest Drink	396. Aerobic Plate Count (CFU)	FDA BAM *Online*, 2001 (Chapter 3)
		397. Coliforms (CFU)	AOAC (2023) 998.08 and 991.14
		398. *Escherichia coli* (CFU)	

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No.	Type of Sample	Test	Method
36.	- Bird's Nest - Bird's Nest Drink	399. *Staphylococcus aureus* (CFU)	FDA BAM *Online*, 2016 (Chapter 12)
		400. *Bacillus cereus* (CFU)	FDA BAM *Online*, 2020 (Chapter 14)
		401. Yeasts and Molds (CFU)	FDA BAM *Online*, 2001 (Chapter 18)
		402. *Salmonella* spp. (Detected or not detected)	ISO 6579-1: 2017/ Amd 1: 2020 (E)
37.	Canned food Low acid food	403. Incubation Test (Accepted or not accepted)	FDA BAM *Online*, 2001 (Chapter 21 A)
		404. Mesophilic Flat sour (Detected or not detected)	
		405. Thermophilic Flat sour (Detected or not detected)	
38.	- Canned food	406. *Clostridium botulinum* (Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 17)
39.	- Feeding stuff	407. *Escherichia coli* (MPN)	ISO 7251: 2005 and FDA BAM *Online*, 2020 (Chapter 4)
		408. Total Plate Count (CFU)	ISO 4833: 2013 (E)
		409. *Salmonella* spp. (Detected or not detected)	ISO 6579-1: 2017/ Amd 1: 2020 (E)

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No.	Type of Sample	Test	Method
40.	• Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Processed water - Surface water - Ground water	410. Total Plate Count (CFU)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 9215
		411. *Escherichia coli* (MPN, Detected or not detected) 412. Total Coliforms (MPN) 413. Fecal Coliforms (CFU, MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 9221
		414. *Salmonella* spp. (Detected or not detected)	ISO 19250: 2010 (E)
		415. *Clostridium perfringens* (CFU, Detected or not detected)	Environment Agency, The Microbiology of Drinking Water, 2010. Part 6
		416. *Staphylococcus aureus* (CFU, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 9213
		417. *Vibrio cholera* (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 9278
		418. Enterococci (CFU, Detected or not detected)	ISO 7899-2: 2000 (E)

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No.	Type of Sample	Test	Method
41.	• Beverages in Sealed Container* • Potable water - Drinking water - Drinking water in sealed container - Tap water • Ice • Non-Potable water - Natural water - Aquaculture water - Brackish water - Sea water • Saline • Wastewater - Wastewater from aquaculture	419. *Escherichia coli* (MPN, Detected or not detected) 420. Total Coliforms (MPN) 421. Fecal Coliforms (CFU, MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24th Edition, 2023. Part 9221

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No.	Type of Sample	Test	Method
42	Swab Test - Plastic sheet - Paper - Carton - Bottle - Lid - Plastic box - Plastic lid - Sack - Plastic bag - Plastic for food packaging - Plastic spoon - Plastic plates - Plastic cup - Swab cotton bud - Cotton swab	422. Total Plate Count (CFU)	Compendium of Method for the Microbiology Examination of Foods, (APHA), 5th Edition, 2015, Chapter 3
		423. *Salmonella* spp. (Detected or not detected)	ISO 6579-1: 2017/ Amd 1: 2020 (E)
		424. *Escherichia coli* (Detected or not detected)	ISO 7251: 2005 and FDA BAM *Online*, 2020 (Chapter 4)
		425. *Staphylococcus aureus* (Detected or not detected)	ISO 6888-3 : 2003 (E)

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Food*

1. Meat and Meat Products (Fresh, Frozen, Processed)
2. Poultry and Poultry Products (Fresh, Frozen, Processed)
3. Seafood and Seafood Products (Fresh, Frozen, Processed)
4. Vegetable and Vegetable Products (Fresh, Frozen, Processed)
5. Fruit and Fruit Products (Fresh, Frozen, Processed)
6. Starch and Starch 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, Coffee, Cocoa
14. Legume and Legume Products
15. Semi-Instant Food Products
16. Ready- to- Eat- Foods
17. Fish sauce and Sauce other kinds of sauce
18. Spices and Condiments
19. Flavor enhancers
20. Snack, Cookies, Biscuit, Cracker
21. Jam and Jelly
22. Honey
23. Chocolate
24. Candy
25. Potato and Potato Products
26. Ice-cream
27. Salad dressings and Condiments
28. Dietary Supplements product
29. Dessert Products
30. Complementary Food for Infants and Young Children

Food**

1. Meat and Meat Products (Fresh, Frozen, Processed)
2. Poultry and Poultry Products (Fresh, Frozen, Processed)
3. Seafood and Seafood Products (Fresh, Frozen, Processed)
4. Vegetable and Vegetable Products (Fresh, Frozen, Processed)
5. Fruit and Fruit Products (Fresh, Frozen, Processed)
6. Cereal and Cereal Products
7. Milk and Milk Products
8. Legume and Legume Products
9. Ready- to- Eat- Foods
10. Snack, Cookies, Biscuit, Cracker
11. Ice-cream
12. Dietary Supplements product
13. Dessert Products
14. Complementary Food for Infants and Young Children

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Beverages in Sealed Container*

1. Water with dissolved carbon dioxide or oxygen gas.
2. Beverage, which is containing or made from fruits, plants or vegetables, and may also contain dissolved carbon dioxide or oxygen gas.
3. Beverage which is containing or made from other constitutes, except fruits, plants or vegetables, and may also contain dissolved carbon dioxide or oxygen gas.
4. Beverage as stipulated in (2) or (3), which is concentrated and needs to be diluted before consumption.
5. Beverage as stipulated in (2) or (3) in dried form.

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