



**Bureau of Laboratory Quality Standards
Ministry of Public Health**

This is to certify that

The laboratory of

Central Laboratory (Thailand) Co., Ltd.

Chachoengsao Branch

36/6 Moo 8, Tha Sa-an, Bang Pakong, Chachoengsao 24130, 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, Feeding stuffs, Water and
Agricultural hazardous substance Testing**


(Mr.Surasak Muenphon)

Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 27 February 2026

Valid Until : 26 February 2030

Accreditation Number 1083/49

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

No.	Type of Sample	Test	Method
1.	Food ¹	1. Total carbohydrate	Method of Analysis for Nutrition
		2. Energy/Calories	Labeling, AOAC International, 1993,
		3. Calories from fat	Page 106
		4. Cholesterol	In-house method TE-CH-143 based on AOAC (2023) 994.10
		5. Benzoic acid	Nordic Committee on Food Analysis, No. 124, 2 nd Edition, 1997
		6. Sorbic acid	
		7. Sum of benzoic acid and sorbic acid	
		8. Sulfur dioxide (SO ₂)	AOAC (2023) 990.28
		9. Salt (as NaCl)	In-house method TE-CH-175 based on AOAC (2023) 937.09
		10. pH	In-house method TE-CH-092 based on AOAC (2023) 981.12
		11. Vitamin A (Retinol)	In-house method TE-CH-024 based on Bull. Dept. Med. Sci., Vol. 37, No. 1, 1995, Page 57-64
		12. Vitamin B1 (Thiamine)	In-house method TE-CH-057 based on AOAC (2023) 942.23
		13. Vitamin B2 (Riboflavin)	In-house method TE-CH-057 based on Journal of Agricultural Food Chemistry, Vol. 32, No. 6, 1984, Page 1326-1331

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No.	Type of Sample	Test	Method
1.	Food ¹	14. Vitamin C (L-ascorbic acid)	In-house method TE-CH-120 based on Bull. Dept. Med. Sci., Vol. 40, No. 3, 1998, Page 347-357
		Fatty acid composition	In-house method TE-CH-208 based on AOAC (2023) 996.06
		15. Mono-unsaturated fat	
		16. Omega-3	
		17. Omega-6	
		18. Omega-9	
		19. Poly-unsaturated fat	
		20. Saturated fat	
		21. Total sugar	In-house method TE-CH-164 based on AOAC (2023) 925.35 (B)
		22. Total dietary fiber	In-house method TE-CH-076 based on AOAC (2023) 985.29
		23. Calcium (Ca)	In-house method TE-CH-170 based on AOAC (2023) 984.27
		24. Potassium (K)	
25. Sodium (Na)			
26. Copper (Cu)	In-house method TE-CH-170 based on AOAC (2023) 999.10		
27. Iron (Fe)			
28. Zinc (Zn)			
29. Tin (Sn)	In-house method TE-CH-135 based on AOAC (2023) 985.16		

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No.	Type of Sample	Test	Method
2.	- Food ¹ - Cannabis and Kratom plant (fresh, dried) - Cannabis concentrates - Cannabis oils	30. Arsenic (As)	In-house method TE-CH-193 based on AOAC (2023) 2015.01
		31. Antimony (Sb)	
		32. Cadmium (Cd)	
		33. Chromium (Cr)	
		34. Lead (Pb)	
		35. Mercury (Hg)	
		36. Nickel (Ni)	
3.	- Food ¹ - Feeding stuffs ¹	38. Water activity	In-house method TE-CH-019 based on AOAC (2023) 978.18
4.	- Food ²	Arsenic speciation (Inorganic Arsenic) 39. Arsenic (V) (As V) 40. Arsenic (III) (As III) 41. Monomethylarsonic acid (MMA) 42. Dimethylarsinic acid (DMA) 43. Arsenobetaine (AB)	In-house method TE-CH-442 based on Journal of AOAC International, Vol. 102, No. 2, 2019, Page 612-618
5.	Dairy and dairy products	44. Total nitrogen and protein	In-house method TE-CH-249 based on AOAC (2023) 991.20
6.	Beverage in sealed container	45. Sulfur dioxide (SO ₂)	AOAC (2023) 990.28

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No.	Type of Sample	Test	Method
7.	- Food ³ - Rice	Organophosphate group 46. acephate 47. azinphos-ethyl 48. chlorpyrifos 49. chlorpyrifos-methyl 50. diazinon 51. dichlorvos 52. dicrotophos 53. dimethoate 54. EPN 55. ethion 56. fenitrothion 57. malathion 58. methamidophos 59. methidathion 60. mevinphos 61. monocrotophos 62. omethoate 63. parathion-ethyl 64. parathion-methyl 65. pirimiphos-ethyl 66. pirimiphos-methyl 67. phosalone 68. profenofos 69. prothiofos 70. triazophos	In-house method TE-CH-281 based on EN 15662:2018

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No.	Type of Sample	Test	Method
7.	- Food ³ - Rice	Organochlorine group 71. aldrin 72. alpha-endosulfan 73. beta-endosulfan 74. cis-chlordan 75. dicofol 76. dieldrin 77. endosulfansulfate 78. endrin 79. heptachlor 80. heptachlor epoxide 81. hexachlorobenzene 82. hexachlorocyclohexane alpha isomer (alpha-BHC) 83. hexachlorocyclohexane beta isomer (beta-BHC) 84. hexachlorocyclohexane gamma isomer (lindane) 85. o,p'-DDD 86. o,p'-DDE 87. o,p'-DDT 88. p,p'-DDD 89. p,p'-DDE 90. p,p'-DDT 91. trans-chlordan	In-house method TE-CH-281 based on EN 15662:2018

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No.	Type of Sample	Test	Method
7.	- Food ³ - Rice	Pyrethroid group 92. bifenthrin 93. cyfluthrin 94. cypermethrin 95. deltamethrin 96. fenvalerate 97. lambda-cyhalothrin 98. permethrin	In-house method TE-CH-281 based on EN 15662:2018
8.	- Food ⁴ - Rice	Carbamate group 99. aldicarb 100. aldicarb sulfone 101. aldicarb sulfoxide 102. carbaryl 103. carbofuran 104. carbofuran-3 OH 105. carbofuran-3 keto 106. fenobucarb (BPMC) 107. isoprocarb 108. methiocarb 109. methiocarb sulfone 110. methiocarb sulfoxide 111. methomyl 112. metolcarb 113. oxamyl 114. promecarb 115. thiodicarb	In-house method TE-CH-301 based on EN 15662:2018

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No.	Type of Sample	Test	Method
9.	Rice	Pesticide residues 116. acetamiprid 117. ametryn 118. atrazine 119. azoxystrobin 120. bromacil 121. difenoconazole 122. dinotefuran 123. diuron 124. hexaconazole 125. imidacloprid 126. isoprothiolane 127. metalaxyl 128. prochloraz 129. propiconazole 130. tebuconazole 131. thiamethoxam 132. tricyclazole	In-house method TE-CH-279 based on EN 15662:2018
10.	- Food ⁵ - Rice - Feeding stuffs ¹ - Coconut milk and coconut cream - Fats, oils and fat emulsions	133. Total aflatoxin 134. Aflatoxin G1 135. Aflatoxin G2 136. Aflatoxin B1 137. Aflatoxin B2	In-house method TE-CH-025 based on AOAC (2023) 991.31 and 994.08

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No.	Type of Sample	Test	Method
11.	Durian - Peel - Pulp (Fresh, Chilled, Frozen)	138. Basic Yellow 2 (Auromine O)	In-house method TE-CH-482 based on BJS 202204, 2022-02-07
12.	- Fruit - Vegetable <ul style="list-style-type: none"> • Root vegetables • Tuber and bulb vegetables • Fruit vegetables • Cucurbitaceous crops 	139. ethephon	In-house method TE-CH-439 based on EURL-SRM QuPpe Method Version 12.3 (30.12.2024)
13.	Vegetable and Fruit - High water content - High acid content and high water content - High oil content and intermediate water content	Organophosphate group 140. acephate 141. azinphos-ethyl 142. chlorpyrifos 143. chlorpyrifos-methyl 144. diazinon 145. dichlorvos 146. dicrotophos 147. dimethoate 148. EPN 149. ethion 150. fenitrothion 151. malathion 152. methamidophos	In-house method TE-CH-030 based on Fresenius Z. of Analytical Chemistry, Vol. 322, 1985, Page 752-754

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No.	Type of Sample	Test	Method
13.	Vegetable and Fruit - High water content - High acid content and high water content - High oil content and intermediate water content	Organophosphate group 153. methidathion 154. mevinphos 155. monocrotophos 156. omethoate 157. parathion-ethyl 158. parathion-methyl 159. pirimiphos- ethyl 160. pirimiphos-methyl 161. phosalone 162. profenofos 163. prothiofos 164. triazophos	In-house method TE-CH-030 based on Fresenius Z. of Analytical Chemistry, Vol. 322, 1985, Page 752-754
		Organochlorine group 165. aldrin 166. alpha-endosulfan 167. beta-endosulfan 168. cis-chlordan 169. dicofol 170. dieldrin 171. endosulfansulfate 172. endrin 173. heptachlor 174. heptachlor epoxide 175. hexachlorobenzene	

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No.	Type of Sample	Test	Method
13.	Vegetable and Fruit - High water content - High acid content and high water content - High oil content and intermediate water content	Organochlorine group	In-house method TE-CH-030 based on Fresenius Z. of Analytical Chemistry, Vol. 322, 1985, Page 752-754
		176. hexachlorocyclohexane alpha isomer (alpha-BHC) 177. hexachlorocyclohexane beta isomer (beta-BHC) 178. Hexachlorocyclohexane gamma isomer (lindane) 179. o,p'-DDD 180. o,p'-DDE 181. o,p'-DDT 182. p,p'-DDD 183. p,p'-DDE 184. p,p'-DDT 185. trans-chlordan	
		Pyrethroid group	In-house method TE-CH-030 based on Fresenius Z. of Analytical Chemistry, Vol. 322, 1985, Page 752-754
		186. bifenthrin 187. cyfluthrin 188. cypermethrin 189. deltamethrin 190. fenvalerate 191. lambda-cyhalothrin 192. permethrin	

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No.	Type of Sample	Test	Method
13.	Vegetable and Fruit - High water content - High acid content and high water content - High oil content and intermediate water content	Carbamate group 193. aldicarb 194. aldicarb sulfone 195. aldicarb sulfoxide 196. carbaryl 197. carbofuran 198. carbofuran-3 OH 199. carbofuran-3 keto 200. fenobucarb (BPMC) 201. isoprocarb 202. methiocarb 203. methiocarb sulfone 204. methiocarb sulfoxide 205. metolcarb 206. methomyl 207. oxamyl 208. promecarb 209. thiodicarb	In-house method TE-CH-389 based on AOAC (2023) 2007.01

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No.	Type of Sample	Test	Method
13.	Vegetable and Fruit - High water content - High acid content and high water content - High oil content and intermediate water content	Pesticide residues 210. ametryn 211. atrazine 212. azoxystrobin 213. bromacil 214. carbendazim 215. diuron 216. metalaxyl 217. prochloraz 218. propiconazole	In-house method TE-CH-274 based on AOAC (2023) 2007.01
14.	- Rice - Corn - Peanuts - Cereal products	219. Ash	In-house method TE-CH-229 based on AOAC (2023) 945.38
15.	- Rice - Corn - Peanuts - Cereal products - Flour products	220. Fat	In-house method TE-CH-014 based on AOAC (2023) 922.06
16.	- Rice - Corn - Peanuts - Cereal products - Flour and flour products	221. Moisture	In-house method TE-CH-228 based on AOAC (2023) 925.10
		222. Total nitrogen and protein	In-house method TE-CH-230 based on AOAC (2023) 981.10

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No.	Type of Sample	Test	Method
17.	Flour and flour products	223. Ash	In-house method TE-CH-229 based on AOAC (2023) 923.03
18.	Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed)	224. Antimony (Sb)	In-house method TE-CH-035 based on AOAC (2023) 2015.01
		225. Arsenic (As)	
		226. Cadmium (Cd)	
		227. Chromium (Cr)	
		228. Lead (Pb)	
		229. Mercury (Hg)	
		230. Nickel (Ni)	
19.	- Meat and meat products (fresh, chilled, frozen, processed) - Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed)	232. Chloramphenicol	- EuroProxima B.V, 5091 CAP (23) 04.20
			- In-house method TE-CH-027 based on Journal of Chromatography B, Vol. 791, 2003, Page 31-38

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No.	Type of Sample	Test	Method
19.	- Meat and meat products (fresh, chilled, frozen, processed) - Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed)	Nitrofurans metabolites 233. 1-Aminohydantoin (AHD) 234. 3-Amino-2-oxazolidinone (AOZ) 235. 3-Amino-5-morpholinomethyl-2-oxazolidinone (AMOZ) 236. 3,5-dinitrosalicylic acid hydrazide (DNSH) 237. Semicarbazide (SEM) 238. Total nitrofurans metabolites	In-house method TE-CH-002 based on Journal of Food Chemistry, Vol. 342, 2021, 128389 (Total and tissue bound residues)
		Sulfonamides group 239. Sulfachloropyridazine (SCP) 240. Sulfadiazine (SDZ) 241. Sulfadimehoxine (SDM) 242. Sulfamerazine (SMR) 243. Sulfamethazine (SMZ) 244. Sulfamethoxazole (SMXZ) 245. Sulfamonomethoxine (SMM) 246. Sulfanilamide (SN) 247. Sulfapyridine (SPY) 248. Sulfaquinoxaline (SQX) 249. Sulfathiazole (STZ) 250. Sulfisoxazole (SIX) 251. Ormethoprim (OMP) 252. Trimethoprim (TMP)	In-house method TE-CH-061 based on Journal of Chromatography A, Vol. 898, 2000, Page 95-102

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No.	Type of Sample	Test	Method
19.	- Meat and meat products (fresh, chilled, frozen, processed) - Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed)	Tetracycline group 253. Chlortetracycline 254. Doxycycline 255. Oxytetracycline 256. Tetracycline	In-house method TE-CH-147 based on AOAC (2023) 995.09
		Quinolones group 257. Flumequine (FLU) 258. Nalidixic acid (NAL) 259. Oxolinic acid (OXO)	In-house method TE-CH-115 based on Journal of Chromatography A, Vol. 952, 2002, Page 121-129
		Fluoroquinolone group 260. Ciprofloxacin (CIP) 261. Danofloxacin (DAN) 262. Difloxacin (DIF) 263. Enrofloxacin (ENR) 264. Levofloxacin (LEV) 265. Lomefloxacin (LOM) 266. Marbofloxacin (MAR) 267. Norfloxacin (NOR) 268. Ofloxacin (OFL) 269. Orbifloxacin (ORB) 270. Pefloxacin (PEF) 271. Sarafloxacin (SAR) 272. Sparfloxacin (SPA)	

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No.	Type of Sample	Test	Method
19.	- Meat and meat products (fresh, chilled, frozen, processed) - Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed)	Malachite green	In-house method TE-CH-070 based on Journal of AOAC International, Vol. 88, No. 3, 2005, Page 744-749
		273. Malachite green	
		274. Leuco-malachite green	
		275. Total malachite green	
		Crystal violet	
		276. Crystal violet	
		277. Leuco-crystal violet	
		278. Total crystal violet	
279. Moisture	AOAC (2023) 950.46 (B)		
280. Ash	AOAC (2023) 920.153		
281. Fat	In-house method TE-CH-014 based on AOAC (2023) 948.15		
282. Total nitrogen and protein	In-house method TE-CH-042 based on AOAC (2023) 981.10		
283. Phosphate (P ₂ O ₅)	In-house method TE-CH-059 based on AOAC (2023) 986.24		
20.	- Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed) - Fish sauce	284. Histamine	ISO 19343:2017
21.	Poultry and poultry products (fresh, chilled, frozen, processed)	285. chlorate	In-house method TE-CH-439 based on EURL-SRM QuPPE Method Version 12.3(30.12.2024)

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No.	Type of Sample	Test	Method
22.	- Urine - Meat (fresh, chilled, frozen)	Beta-agonist 286. Clenbuterol 287. Salbutamol 288. Ractopamine	In-house method TE-CH-044 based on Journal of Chromatography B, Vol. 813, 2004, Page 35-45
23.	Feeding stuffs ¹	289. Fat 290. Ash 291. Moisture 292. Total nitrogen and protein 293. Crude fiber	AOAC (2023) 954.02 AOAC (2023) 942.05 In-house method TE-CH-359 based on ISO 6496:1999 In-house method TE-CH-250 based on AOAC (2023) 976.05 In-house method TE-CH-122 based on AOAC (2023) 978.10
24.	- Potable water • Drinking water • Drinking water in sealed container • Tap water - Non-Potable water • Processed water • Surface water • Ground water • Natural water - Ice - Wastewater	294. Aluminium (Al) 295. Antimony (Sb) 296. Arsenic (As) 297. Barium (Ba) 298. Beryllium (Be) 299. Cadmium (Cd) 300. Chromium (Cr) 301. Copper (Cu) 302. Iron (Fe) 303. Lead (Pb) 304. Manganese (Mn) 305. Mercury (Hg)	In-house method TE-CH-038 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3030 E and 3125

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No.	Type of Sample	Test	Method	
24.	- Potable water	306. Nickel (Ni)	In-house method TE-CH-038 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3030 E and 3125	
	• Drinking water	307. Molybdenum (Mo)		
	• Drinking water in sealed container	308. Selenium (Se)		
	• Tap water	309. Silver (Ag)		
	- Non-Potable water	310. Thallium (Tl)		
	• Processed water	311. Uranium (U)		
	• Surface water	312. Zinc (Zn)		
	• Ground water	313. Aluminium (Al)		In-house method TE-CH-038 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3030 E and 3120
	• Natural water	314. Arsenic (As)		
	- Ice	315. Barium (Ba)		
	- Wastewater	316. Calcium (Ca)		
		317. Chromium (Cr)		
		318. Copper (Cu)		
		319. Iron (Fe)		
		320. Lead (Pb)		
		321. Magnesium (Mg)		
		322. Manganese (Mn)		
		323. Nickel (Ni)		
		324. Potassium (K)		
		325. Sodium (Na)		
		326. Zinc (Zn)		

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No.	Type of Sample	Test	Method
24.	<ul style="list-style-type: none"> - Potable water <ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water - Non-Potable water <ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water - Ice - Wastewater 	327. Hexavalent chromium (Cr VI)	In-house method TE-CH-173 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3500-Cr B
		328. Trivalent chromium (Cr III)	In-house method TE-CH-173 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3030 E and 3500-Cr B
		329. Chlorate	In-house method TE-CH-439 based on EURL-SRM QuPPE Method Version 12.3 (30.12.2024)
		330. Cyanide	- Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-CN ⁻ E
			- Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-CN ⁻ C and E
331. pH	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500 - H ⁺ B		

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No.	Type of Sample	Test	Method
24.	- Potable water <ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water - Non-Potable water <ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water - Ice - Wastewater	332. Phenol	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5530 C
			Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5530 B and C
		333. Oil and grease (Partition)	In-house method TE-CH-087 base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5520 B
		334. Oil and grease (Soxhlet)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5520 D
		335. Total dissolved solids (TDS)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2540 C
	336. Total kjeldahl nitrogen (TKN)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-N _{org} B	

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No.	Type of Sample	Test	Method
24.	- Potable water <ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water 	337. Anionic Surfactants as Methylene Blue Active Substances (MBAS) <ul style="list-style-type: none"> - MBAS, calculated as Linear Alkylbenzene Sulfonate (LAS), MW = 288.38 - MBAS as ABS Calculated as Linear Alkylbenzene Sulfonate (LAS), MW = 288.38 	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5540 C
	- Non-Potable water <ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water 		
	- Ice	338. Color	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2120 C
	- Wastewater	339. Color (ADMI)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2120 F
		340. Chloride 341. Chloride as Cl ₂	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-Cl B
	342. Fluoride 343. Fluoride as F ₂	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-F D	

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No.	Type of Sample	Test	Method
24.	<ul style="list-style-type: none"> - Potable water <ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water - Non-Potable water <ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water - Ice - Wastewater 	344. Odour	<ul style="list-style-type: none"> - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 2150 B - Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 2150 B and TIS 257 No. 2, 1978, Page 5
		345. Total solids (TS)	In-house method TE-CH-062 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2540 B
		346. Turbidity	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2130 B
		347. Sulfate	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-SO ₄ ²⁻ E

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No.	Type of Sample	Test	Method
24.	- Potable water	348. Chemical oxygen demand (COD)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5220 C
	• Drinking water		
	• Drinking water in sealed container		
	• Tap water	349. Free chlorine	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-CI F
	- Non-Potable water	350. Residual free chlorine	
	• Processed water	351. Chlorine	
• Surface water			
• Ground water	352. Soluble phosphorus	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-P E	
• Natural water			
- Ice			
- Wastewater	353. Formaldehyde	In-house method TE-CH-202 based on ASTM D6303	
	354. Total nitrogen (Persulfate method)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-N C	

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No.	Type of Sample	Test	Method
25.	- Potable water <ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water 	355. Alkalinity	In-house method TE-CH-117 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2320 B
	- Non-Potable water <ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water • Aquaculture water 	356. Ammonia-nitrogen (Total ammonia nitrogen) 357. Ammonia (NH ₃)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-NH ₃ C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-NH ₃ F
	- Ice		
	- Brackish water		
	- Wastewater - Wastewater from aquaculture	358. Biochemical oxygen demand (BOD)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5210 B
	359. Calcium hardness 360. Calcium hardness as CaCO ₃	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3500-Ca B	
	361. Magnesium hardness 362. Magnesium hardness as CaCO ₃	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 3500-Mg B	

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No.	Type of Sample	Test	Method
25.	- Potable water	363. Total hardness	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2340 C
	<ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container 	364. Total hardness as CaCO ₃	
	<ul style="list-style-type: none"> • Tap water 	365. Sulfide	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-S ²⁻ F
	- Non-Potable water		
	<ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water • Aquaculture water 	366. Hydrogen sulfide	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-S ²⁻ F
	- Ice		
	- Brackish water	367. Nitrate	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-NO ₃ ⁻ E
- Wastewater	368. Nitrate as N		
- Wastewater from aquaculture	369. Nitrate as NO ₃		
	370. Nitrite	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-NO ₂ ⁻ B	
	371. Nitrite as N		
	372. Nitrite as NO ₂		
		373. Total suspended solids (TSS)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2540 D

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No.	Type of Sample	Test	Method
25.	- Potable water	374. Total phosphorus	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-P E
	<ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water 	Organochlorine group	
	- Non-Potable water	375. aldrin	In-house method TE-CH-131 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 6410 B
	<ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water • Aquaculture water 	376. alpha-endosulfan	
		377. beta-endosulfan	
		378. cis-chlordan	
		379. dicofol	
		380. dieldrin	
		381. endosulfansulfate	
		382. endrin	
		383. heptachlor	
		384. heptachlor epoxide	
		385. hexachlorobenzene	
		386. hexachlorocyclohexane alpha isomer (alpha-BHC)	
		387. hexachlorocyclohexane beta isomer (beta-BHC)	
		388. hexachlorocyclohexane gamma isomer (lindane)	
		389. o,p'-DDD	
		390. o,p'-DDE	

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

No.	Type of Sample	Test	Method
25.	- Potable water <ul style="list-style-type: none"> • Drinking water • Drinking water in sealed container • Tap water 	Organochlorine group 391. o,p'-DDT 392. p,p'-DDD 393. p,p'-DDE 394. p,p'-DDT 395. trans-chlordan	In-house method TE-CH-131 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 6410 B
	- Non-Potable water <ul style="list-style-type: none"> • Processed water • Surface water • Ground water • Natural water • Aquaculture water - Ice - Brackish water - Wastewater - Wastewater from aquaculture	Pyrethroids group 396. bifenthrin 397. cyfluthrin 398. cypermethrin 399. deltamethrin 400. fenvalerate 401. lambda-cyhalothrin 402. permethrin	In-house method TE-CH-131 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 6410 B
26.	Agricultural hazardous products	403. Abamectin (%W/W TC, EC) (%W/V EC)	In-house method TE-CH-293 based on Acta Poloniae Pharmaceutica on Drug Research, Vol. 68, No. 4, 2011, Page 467-472
		404. Acetochlor (%W/W EC) (%W/V EC)	In-house method TE-CH-289 based on Journal of AOAC International, Vol. 84, No. 2, 2001, Page 317-322

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

No.	Type of Sample	Test	Method
26.	Agricultural hazardous products	405. Ametryn (%W/W WG)	In-house method TE-CH-344 based on CIPAC Handbook Volume H, 1998, Page 22-25
		406. Butachlor (%W/W EC, GR, TC) (%W/V EC)	In-house method TE-CH-290 based on CIPAC Handbook Volume D, 1988, Page 17-19
		407. Carbaryl (% W/W WP)	In-house method TE-CH-351 based on CIPAC Handbook Volume M, 2009, Page 19-25
		408. Chlorothalonil (%W/W SC) (%W/V SC)	In-house method TE-CH-347 based on CIPAC Handbook Volume K, 2003, Page 13-22
		409. Clomazone (%W/W EC) (%W/V EC)	In-house method TE-CH-387 based on BCPB, A World Compendium The Pesticide Manual, 18 th Edition, Clomazone
		410. Cypermethrin (%W/W EC, TC, WP,) (%W/V EC)	In-house method TE-CH-291 based on CIPAC Handbook Volume 1C, 1985, Page 2047-2059
		411. Deltamethrin (%W/W EC, TC, WP,) (%W/V EC)	In-house method TE-CH-292 based on CIPAC Handbook Volume L, 2006, Page 45-60

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No.	Type of Sample	Test	Method
26.	Agricultural hazardous products	412. Dinotefuran (%W/W SG)	In-house method TE-CH-349 based on CIPAC Handbook Volume L, 2006, Page 67-72
		413. Etofenprox (%W/W EW) (%W/V EW)	In-house method TE-CH-348 based on CIPAC Handbook Volume G, 1995, Page 56-61
		414. Fipronil (%W/W GR, SC, TC) (%W/V SC)	In-house method TE-CH-294 based on CIPAC Handbook Volume J, 2000, Page 60-65
		415. Glyphosate (%W/W SL) (%W/V SL)	In-house method TE-CH-354 based on CIPAC Handbook Volume H, 1998, Page 182-184
		416. Glyphosate ammonium (Glyphosate monoammonium) (%W/W SL) (%W/V SL)	
417. Glyphosate isopropylammonium (Glyphosate isopropylamine) (%W/W SL) (%W/V SL)			
418. Imidacloprid (%W/W SC, SL, WG,) (%W/V SC, SL)	In-house method TE-CH-352 based on CIPAC Handbook Volume H, 1998, Page 185-193		

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Date of Accreditation : 27 February 2026

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Valid Until : 26 February 2030

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

No.	Type of Sample	Test	Method
26.	Agricultural hazardous products	419. Metalaxyl (%W/W DS, WP)	In-house method TE-CH-345 based on CIPAC Handbook Volume E, 1993, Page 123-130
		420. Prochloraz (%W/W EW) (%W/V EW)	In-house method TE-CH-353 based on CIPAC Handbook Volume M, 2009, Page 165-169
		421. Propanil (%W/W EC) (%W/V EC)	In-house method TE-CH-388 based on BCPB, A World Compendium The Pesticide Manual 18 th Edition, Propanil
		422. Propiconazole (%W/W EC) (%W/V EC)	In-house method TE-CH-346 based on CIPAC Handbook Volume G, 1995, Page 129-136
		423. Temephos (%W/W GR, SG)	In-house method TE-CH-296 based on CIPAC Handbook Volume 1C, 1985, Page 2230-2233
27.	Food ¹	424. <i>Bacillus cereus</i> (CFU, MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 14)
		425. Coliforms (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
		426. <i>Escherichia coli</i> (MPN)	
		427. Fecal Coliforms (MPN)	

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No.	Type of Sample	Test	Method
27.	Food ¹	428. Coliforms (CFU)	AOAC (2023) 991.14
		429. <i>Escherichia coli</i> (CFU)	
		430. <i>Clostridium botulinum</i> (Detected or not detected)	FDA BAM Online, 2001 (Chapter17)
		431. <i>Clostridium perfringens</i> (CFU, Detected or not detected)	FDA BAM Online, 2001 (Chapter 16)
		432. Enterococci / Fecal Streptococci (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition. 2015, (Chapter 10)
		433. <i>Staphylococcus aureus</i> (CFU, MPN, Detected or not detected)	FDA BAM Online, 2016 (Chapter 12)
		434. <i>Vibrio cholerae</i> (Detected or not detected)	FDA BAM Online, 2004 (Chapter 9)
		435. <i>Vibrio parahaemolyticus</i> (MPN)	FDA BAM Online, 2004 (Chapter 9)
		436. Yeasts and Molds (CFU)	AOAC (2023) 997.02

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No.	Type of Sample	Test	Method
28.	Canned food	437. Flat Sour Mesophile (Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 21A)
		438. Flat Sour Thermophile (Detected or not detected)	
		439. Incubation Test (Acceptable or not acceptable)	
		440. Mesophilic anaerobes (Detected or not detected)	
28.	Canned food	441. Thermophilic anaerobes (Detected or not detected)	TIS 335-2561
		442. Putrefactive anaerobes (Detected or not detected)	
		443. Sulfide spoilage (Detected or not detected)	
28.	Canned food	444. <i>Clostridium botulinum</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 17 and Chapter 21A)
		445. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd 1:2020
29.	- Food ¹ - Feeding stuffs ¹ - Carcass rinse	446. <i>Listeria</i> spp. (Detected or not detected)	ISO 11290-1: 2017
		447. <i>Listeria monocytogenes</i> (Detected or not detected)	

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No.	Type of Sample	Test	Method	
30.	- Food ¹ - Feeding stuffs ¹	448. <i>Vibrio</i> spp. (Detected or not detected)	ISO 21872-1: 2017/Amd 1:2023	
		449. <i>Vibrio cholerae</i> (Detected or not detected)		
		450. <i>Vibrio parahaemolyticus</i> (Detected or not detected)		
		451. Enterobacteriaceae (Detected or not detected)		ISO 21528-1:2017
		452. Coliforms (Detected or not detected)		ISO 4831:2006
31.	- Food ¹ - Feeding stuffs ¹	453. <i>Escherichia coli</i> (Detected or not detected)	ISO 7251:2005/Amd 1:2023	
		454. Aerobic Plate Count (Total Plate Count) (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 3)	
		455. Enterobacteriaceae (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition. 2015, (Chapter 9)	
		456. <i>Escherichia coli</i> O157:H7 (Detected or not detected)	ISO 16654:2001/Amd 2:2023	
		457. Lactic acid bacteria (CFU)	ISO 15214:1998	

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No.	Type of Sample	Test	Method
31.	- Food ¹ - Feeding stuffs ¹	458. <i>Staphylococcus aureus</i> (CFU)	ISO 6888-1:2021/Amd 1:2023
		459. <i>Listeria monocytogenes</i> (CFU)	ISO 11290-2:2017
		460. Yeasts and Molds (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition, 2015, (Chapter 21)
		461. <i>Campylobacter</i> spp. (Detected or not detected) 462. <i>Campylobacter jejuni</i> (Detected or not detected) 463. <i>Campylobacter coli</i> (Detected or not detected)	ISO 10272-1:2017/Amd 1:2023
32.	- Food ¹ (Excluding Milk and Milk products) - Feeding stuffs ¹	464. <i>Escherichia coli</i> (MPN)	ISO 16649-3:2015
33.	Swab	465. Aerobic Plate Count (Total Plate Count) (CFU)	In-house method TE-MI-151 based on FDA BAM <i>Online</i> , 2001 (Chapter 3)
		466. <i>Bacillus cereus</i> (CFU, MPN, Detected or not detected)	In-house method TE-MI-139 based on FDA BAM <i>Online</i> , 2020 (Chapter 14)

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No.	Type of Sample	Test	Method
33.	Swab	467. <i>Campylobacter</i> spp. (Detected or not detected)	ISO 10272-1:2017/Amd 1:2023
		468. <i>Campylobacter jejuni</i> (Detected or not detected)	
		469. <i>Campylobacter coli</i> (Detected or not detected)	
		470. <i>Clostridium perfringens</i> (CFU, Detected or not detected)	In-house method TE-MI-140 based on FDA BAM <i>Online</i> , 2001 (Chapter 16)
		471. Coliforms (Detected or not detected)	In-house method TE-MI-141 based on FDA BAM <i>Online</i> , 2020 (Chapter 4)
		472. <i>Escherichia coli</i> (Detected or not detected)	
		473. Fecal Coliforms (Detected or not detected)	
		474. Coliforms (CFU)	In-house method TE-MI-155 based on Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition. 2015, (Chapter 9)
475. <i>Escherichia coli</i> (CFU)			
476. Enterobacteriaceae (CFU)	In-house method TE-MI-154 based on Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition. 2015, (Chapter 9)		
477. <i>Listeria monocytogenes</i> (Detected or not detected)	ISO 11290-1:2017		

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No.	Type of Sample	Test	Method
33.	Swab	478. <i>Listeria monocytogenes</i> (CFU)	ISO 11290-2:2017
		479. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd 1:2020
		480. <i>Staphylococcus aureus</i> (CFU, MPN, Detected or not detected)	In-house method TE-MI-143 based on FDA BAM <i>Online</i> , 2016 (Chapter 12)
		481. <i>Staphylococcus aureus</i> (CFU)	ISO 6888-1:2021/Amd 1:2023
		482. <i>Vibrio cholerae</i> (Detected or not detected)	In-house method TE-MI-145 based on FDA BAM <i>Online</i> , 2004 (Chapter 9)
		483. Yeasts and Molds (CFU) 484. Yeasts (CFU) 485. Molds (CFU)	In-house method TE-MI-146 based on Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition, 2015, (Chapter 21)

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No.	Type of Sample	Test	Method
34.	- Potable water	486. Aerobic Plate Count (Total Plate Count) (CFU)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9215 B and D
	• Drinking water		
	• Drinking water in sealed container		
	• Tap water	487. <i>Clostridium perfringens</i> (CFU, Detected or not detected)	Standard Committee of Analysis: The microbiology of drinking water, 2020, Part 6
	- Non-Potable water		
	• Processed water		
	• Surface water	488. <i>Clostridium perfringens</i> (CFU, Detected or not detected)	ISO 14189:2013
	• Ground water		
• Natural water			
• Aquaculture water	489. Coliforms (MPN)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9221 B	
- Ice			
- Brackish water			
- Wastewater	490. Coliforms (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9221 D	
	491. <i>Escherichia coli</i> (MPN, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9221 F and B	
	492. Enterococci (CFU, Detected or not detected)	ISO 7899-2:2000	

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No.	Type of Sample	Test	Method
34.	- Potable water	493. Fecal Coliforms (MPN, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9221 E and B
	• Drinking water		
	• Drinking water in sealed container		
	• Tap water	494. Fecal Coliforms (CFU)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9222 D
	- Non-Potable water		
	• Processed water		
• Surface water			
• Ground water	495. <i>Pseudomonas aeruginosa</i> (CFU, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9213 E	
• Natural water			
• Aquaculture water			
- Ice			
- Brackish water	496. <i>Salmonella</i> spp. (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9274 B	
- Wastewater			
		497. <i>Staphylococcus aureus</i> (CFU, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9213 B
		498. <i>Vibrio cholerae</i> (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9278 B

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

Food¹

- | | |
|--|--------------------------------|
| 1. Meat and meat products (fresh, chilled, frozen, processed) | 15. Coffee |
| 2. Poultry and poultry products (fresh, chilled, frozen, processed) | 16. Semi process food |
| 3. Aquatic animals and aquatic animals products
(fresh, chilled, frozen, processed) | 17. Ready to eat food |
| 4. Fruit and fruit products (fresh, chilled, frozen, processed) | 18. Fish sauce and sauce |
| 5. Vegetable and vegetable products (fresh, chilled, frozen, processed) | 19. Spice and other condiments |
| 6. Starch and starch products | 20. Flavors enhancer |
| 7. Cereal and cereal products | 21. Bakery products |
| 8. Nut and nut products | 22. Jam and jelly |
| 9. Bean and bean products | 23. Candy and chewing gum |
| 10. Egg and egg products | 24. Chocolate |
| 11. Algae and algae products | 25. Ice-cream |
| 12. Noodle and noodle products | 26. Honey |
| 13. Milk and milk products | 27. Potato and potato products |
| 14. Tea | 28. Herbal and herbal products |

Food²

- | | |
|--|-------------------------------|
| 1. Aquatic animals and aquatic animals products
(fresh, chilled, frozen, processed) | 4. Noodle and noodle products |
| 2. Starch and starch products | 5. Semi process food |
| 3. Cereal and cereal products | 6. Ready to eat food |
| | 7. Bakery products |

Food³

- | | |
|--|-----------------------------------|
| 1. Meat (fresh, chilled, frozen, processed) | 5. Coconut milk and coconut cream |
| 2. Aquatic animals (fresh, chilled, frozen, processed) | 6. Spice and other condiments |
| 3. Cereal and cereal products | 7. Animal fat |
| 4. Dried fruit | |

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

Food⁴

1. Meat and meat products (fresh, chilled, frozen, processed)
2. Aquatic animals and aquatic animals products (fresh, chilled, frozen, processed)
3. Cereal and cereal products
4. Dried fruit
5. Coconut milk and coconut cream
6. Spice and other condiments
7. Eggs
8. Dairy and dairy products
9. Beverage
10. Animal fat

Food⁵

1. Starch and starch products
2. Cereal and cereal products
3. Nut and nut products
4. Fruit and fruit products (fresh, chilled, frozen, processed)
5. Vegetable and vegetable products (fresh, chilled, frozen, processed)
6. Algae and algae products
7. Semi process food
8. Curry paste, dried chilli, chilli paste
9. Spice and other condiments
10. Flavors enhancer
11. Bakery products
12. Beverage from cereals
13. Soybean oil, palm oil, coconut oil, sesame oil

Feeding stuffs¹

1. Bean and bean meal
2. Rice bran
3. Meat meal, bone meal, fish meal
4. Instant animal feed
5. Pellets feed, powder feed