

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, Tasa-arn, Bangpakong, 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 and Feeding stuffs Testing

(Dr. Patravee Soisangwan)

Padravee Solsongua

Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 21 January 2022

Valid Until : 20 January 2026

Accreditation Number 1083/49

No.	Type of Sample	Test	Method
1.	Food	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,
		6. Sorbic acid	No. 124, 2 nd Edition, 1997
		7. Sulfur dioxide (SO ₂)	AOAC (2023) 990.28
		8. Salt (as NaCl)	In-house method TE-CH-175
			based on AOAC (2023) 937.09
		9. pH	In-house method TE-CH-092
			based on AOAC (2023) 981.12
		10.Vitamin A (Retinol)	In-house method TE-CH-024
			based on Bull. Dept. Med. Sci.,
			Vol. 37, No. 1, 1995, Page 57-64
		11.Vitamin B1 (Thiamine)	In-house method TE-CH-057
			based on AOAC (2023) 942.23
		12. Vitamin B2 (Riboflavin)	In-house method TE-CH-057
			based on Journal of Agricultural
			Food Chemistry, Vol. 32, No. 6,
			1984, Page 1326-1331
		13. Vitamin C	In-house method TE-CH-120
		(L-ascorbic acid)	based on Bull. Dept. Med. Sci.,
			Vol. 40, No. 3, 1998, Page 347-357

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Date of Accreditation : 21 January 2022

Valid Until

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Date Revised 8 March 2024

Revision No. 02

Armid . (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
1.	Food	Fatty acid composition	In-house method TE-CH-208
		14. Mono-unsaturated fat	based on AOAC (2023) 996.06
		15. Omega-3	
		16. Omega-6	
		17. Omega-9	
		18. Poly- unsaturated fat	
		19. Saturated fat	
		20. Total sugar	In-house method TE-CH-164 based or
			AOAC (2023) 925.35 (B)
	<u> </u>	21. Total dietary fiber	In-house method TE-CH-076
			based on AOAC (2023) 985.29
		22. Calcium (Ca)	In-house method TE-CH-170
		23. Sodium (Na)	based on AOAC (2023) 984.27
		24. Iron (Fe)	In-house method TE-CH-170
			based on AOAC (2023) 999.10
		25.Arsenic (As)	In-house method TE-CH-193
		26.Antimony (Sb)	based on AOAC (2023) 2015.01
		27.Cadmium (Cd)	
		28.Chromium (Cr)	
		29.Lead (Pb)	
		30.Mercury (Hg)	
		31.Nickel (Ni)	
		32.Selenium (Se)	

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Shovance Aromatul (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
2.	- Food ¹	33. Water activity	In-house method TE-CH-019
	- Feeding stuffs ¹		based on AOAC (2023) 978.18
3.	Dairy and dairy products	34. Total nitrogen and protein	In-house method TE-CH-249
			based on AOAC (2023) 991.20
4.	Vegetable and fruit	Organophosphate group	In-house method TE-CH-030
		35. acephate	based on Fresenius Z. of Analytical
		36. azinphos-ethyl	Chemistry, Vol. 322, 1985,
		37. chlorpyrifos	Page 752-754
		38. diazinon	
		39. dichlorvos	
		40. dicrotophos	
		41. dimethoate	
		42. EPN	
		43.ethion	
		44. fenitrothion	
		45. malathion	
		46. methamidophos	
		47. methidathion	
		48. mevinphos	
		49. monocrotophos	
		50. omethoate	
		51. parathion-ethyl	
		52. parathion-methyl	
		53. pirimiphos-ethyl	

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60 Van !! Aremsed . (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
4.	Vegetable and fruit	Organophosphate group	In-house method TE-CH-030
		54. pirimiphos-methyl	based on Fresenius Z. of Analytical
		55. phosalone	Chemistry, Vol. 322, 1985,
		56. profenofos	Page 752-754
		57. prothiofos	1 age 732-734
		58. triazophos	
		Organochlorine group	In-house method TE-CH-030
		59. aldrin	based on Fresenius Z. of Analytical
		60. alpha-endosulfan	Chemistry, Vol. 322, 1985,
		61. beta-endosulfan	Page 752-754
		62. cis-chlordan	1 age 732-734
		63. dicofol	
		64. dieldrin	
		65. endosulfansulfate	
		66. endrin	
		67. heptachlor	
		68. heptachlor epoxide	
		69. hexachlorobenzene	
		70. hexachlorocyclohexane	
		alpha isomer (alpha-BHC)	
		71. hexachlorocyclohexane	
		beta isomer (beta-BHC)	
		72. hexachlorocyclohexane	
		gamma isomer (lindane)	
		73. o,p'-DDD	
		74. o,p'-DDE	

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No.	Type of Sample	Test	Method
4.	Vegetable and fruit	Organochlorine group	In-house method TE-CH-030
		75.o,p'-DDT	based on Fresenius Z. of Analytical
		76. p,p'-DDD	Chemistry, Vol. 322, 1985,
		77. p,p'-DDE	Page 752-754
		78. p,p'-DDT	1 4 5 6 7 5 2 7 5 1
		79. trans-chlordan	
		Pyrethroid group	In-house method TE-CH-030
		80. bifenthrin	based on Fresenius Z. of Analytical
		81. cyfluthrin	Chemistry, Vol. 322, 1985,
		82. cypermethrin	Page 752-754
		83. deltamethrin	
		84. fenvalerate	
		85. lambda-cyhalothrin	
		86. permethrin	
		Pesticide residues	In-house method TE-CH-274
		87. ametryn	based on AOAC (2023) 2007.01
		88. atrazine	
		89. azoxystrobin	
		90. bromacil	
		91. carbendazim	
		92. diuron	
		93. metalaxyl	
		94. prochloraz	
		95. propiconazole	

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SAOVANEL Reviewed by Head of Laboratory Accreditation Section

Accompany (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
4.	Vegetable and fruit	Carbamate group	In-house method TE-CH-389
		96. aldicarb	based on AOAC (2023) 2007.01
		97. aldicarb sulfone	
		98. aldicarb sulfoxide	
		99. carbaryl	
		100. carbofuran	
		101. carbofuran-3 OH	
		102. carbofuran-3 keto	
		103. fenobucarb (BPMC)	
		104. isoprocarb	
		105. methiocarb	
		106. methiocarb sulfone	
		107. methiocarb sulfoxide	
		108. metolcarb	
		109. methomyl	
		110. oxamyl	
		111. promecarb	
		112. thiodicarb	

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Armstol. (Ms. Saovanee Aromsook)

Date Revised 8 March 2024

No.	Type of Sample	Test	Method
5.	Rice	Organophosphate group	In-house method TE-CH-281
		113. acephate	based on EN 15662 : 2018
		114. azinphos-ethyl	
		115. chlorpyrifos	
		116. chlorpyrifos-methyl	
		117. diazinon	
		118. dichlorvos	
		119. dicrotophos	
		120. dimethoate	
		121. EPN	
		122. ethion	
		123. fenitrothion	
		124. malathion	
		125. methamidophos	
		126. methidathion	
		127. mevinphos	
		128. monocrotophos	
		129. omethoate	
		130. parathion-ethyl	
		131. parathion-methyl	
		132. pirimiphos-ethyl	
		133. pirimiphos-methyl	
		134. phosalone	
		135. profenofos	
		136. prothiofos	
		137. triazophos	

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No.	Type of Sample	Test	Method
5.	Rice	Organochlorine group	In-house method TE-CH-281
		138. aldrin	based on EN 15662 : 2018
		139. alpha-endosulfan	
		140. beta-endosulfan	
		141. cis-chlordan	
	-	142. dicofol	
		143. dieldrin	
		144. endosulfansulfate	
		145. endrin	
		146. heptachlor	
		147. heptachlor epoxide	
		148. hexachlorobenzene	
		149. hexachlorocyclohexane	
		alpha isomer (alpha-BHC)	
		150. hexachlorocyclohexane	
		beta isomer (beta-BHC)	
	,	151. hexachlorocyclohexane	
		gamma isomer (lindane)	
		152. o,p'-DDD	
		153. o,p'-DDE	
		154. o,p'-DDT	
		155. p,p'-DDD	
		156. p,p'-DDE	
		157. p,p'-DDT	
		158. trans-chlordan	

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(Ms. Saovanee Aromsook)

lo.	Type of Sample	Test	Method
5.	Rice	Pyrethroid group	In-house method TE-CH-281
		159. bifenthrin	based on EN 15662 : 2018
		160. cyfluthrin	
		161. cypermethrin	
		162. deltamethrin	
		163. fenvalerate	
		164. lambda-cyhalothrin	
		165. permethrin	
		Pesticide residues	In-house method TE-CH-279
		166. acetamiprid	based on EN 15662 : 2018
		167. ametryn	
		168. atrazine	
		169. azoxystrobin	
		170. bromacil	
		171. difenoconazole	
		172. dinotefuran	
		173. diuron	
		174. hexaconazole	
		175. imidacloprid	
		176. isoprothiolane	
		177. metalaxyl	
		178. prochloraz	
		179. propiconazole	
		180. tebuconazole	
		181. thiamethoxam	
		182. tricyclazole	

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(Ms. Saovanee Aromsook)

0.	Type of Sample	Test	Method
5.	Rice	Carbamate group	In-house method TE-CH-301
		183. aldicarb	based on EN 15662 : 2018
		184. aldicarb sulfone	
		185. aldicarb sulfoxide	
		186. carbaryl	
		187. carbofuran	
		188. carbofuran-3 OH	
		189. carbofuran-3 keto	
		190. fenobucarb (BPMC)	
		191. isoprocarb	
		192. methiocarb	
	/	193. methiocarb sulfone	
		194. methiocarb sulfoxide	
		195. methomyl	
		196. metolcarb	
		197. oxamyl	
		198. promecarb	
		199. thiodicarb	
6.	- Rice	200. Total aflatoxin	In-house method TE-CH-025
	- Food ²	201. Aflatoxin G1	based on AOAC (2023) 991.31,
	- Feeding stuffs ¹	202. Aflatoxin G2	994.08
		203. Aflatoxin B1	
		204. Aflatoxin B2	

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Reviewed by Head of Laboratory Accreditation Section 540 Vanet Aromsock) (Ms. Saovanee Aromsock)

No.	Type of Sample	Test	Method
7.	-Rice - Corn	205. Ash	In-house method TE-CH-229 based on AOAC (2023) 945.38
	- Peanuts - Cereal products		
8.	- Rice - Corn - Peanuts - Cereal products - Flour products	206. Fat	In-house method TE-CH-014 based on AOAC (2023) 922.06
9.	- Rice - Corn - Peanuts - Cereal products	207. Moisture 208. Total nitrogen / Protein	In-house method TE-CH-228 based on AOAC (2023) 925.10 In-house method TE-CH-230
10.	- Flour and flour products Flour and flour products	209. Ash	based on AOAC (2023) 981.10 In-house method TE-CH-229
			based on AOAC (2023) 923.03
11.	Aquatic animal tissue and	210. Lead (Pb)	In-house method TE-CH-035
	aquatic animal tissue products	211. Cadmium (Cd)	based on AOAC (2023) 2015.01
		212. Mercury (Hg)	
		213. Arsenic (As)	
		214. Selenium (Se)	

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No.	Type of Sample	Test	Method
12.	- Meat and meat products	215. Chloramphenicol	- EuroProxima B.V,
	(Fresh, Frozen, Processed)		5091 CAP (23) 04.20
	- Aquatic animal tissue and		- In-house method TE-CH-027
	aquatic animal tissue products		based on Journal of
	(Fresh, Frozen, Processed)		Chromatography B, Vol. 791,
			2003, Page 31-38
		Nitrofuran metabolites	In-house method TE-CH-002
		216. 1-Aminohydantoin (AHD)	based on Journal of Food Chemistry,
		217. 3-Amino-2-oxazolidinone	Vol. 342, 2021, 128389 (Total and
		(AOZ)	Tissue bound residues)
		218. 3-Amino-5-morpholinomethyl-	
		2-oxazolidinone (AMOZ)	
		219. Semicarbazide (SEM)	
		Sulfonamides group	In-house method TE-CH-061
		220. Sulfachloropyridazine (SCP)	based on Journal of Chromatography A
		221. Sulfadiazine (SDZ)	Vol. 898, 2000, Page 95-102
		222. Sulfadimehoxine (SDM)	
		223. Sulfamerazine (SMR)	
		224. Sulfamethazine (SMZ)	
		225. Sulfamethoxazole (SMXZ)	
		226. Sulfamonomethoxine (SMM)	
		227. Sulfanilamide (SN)	
		228. Sulfapyridine (SPY)	
		229. Sulfaquinoxaline (SQX)	
		230. Sulfathiazole (STZ)	
		231. Sulfisoxazole (SIX)	

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Aromsolv. (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
12.	- Meat and meat products (Fresh, Frozen, Processed) - Aquatic animal tissue and	232. Trimethoprim (TMP)233. Ormethoprim (OMP)	In-house method TE-CH-061 based on Journal of Chromatography A, Vol. 898, 2000, Page 95-102
	aquatic animal tissue products (Fresh, Frozen, Processed)	Tetracycline group 234. Chlortetracycline 235. Doxycycline 236. Oxytetracycline 237. Tetracycline	In-house method TE-CH-147 based on AOAC (2023) 995.09
		238. Oxolinic acid	In-house method TE-CH-004 based on Journal of AOAC, Vol. 74, No. 4, 1991, Page 608-611
		Quinolones group 239. Flumequine (FLU) 240. Nalidixic acid (NAL) 241. Oxolinic acid (OXO) Fluoroquinolone group 242. Ciprofloxcin (CIP) 243. Danofloxacin (DAN) 244. Difloxacin (DIF) 245. Enrofloxacin (ENR) 246. Levofloxacin (LEV) 247. Lomefloxacin (LOM) 248. Marbofloxacin (MAR)	In-house method TE-CH-115 based on Journal of Chromatography A, Vol. 952, 2002, Page 121-129

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No.	Type of Sample	Test	Method
12.	- Meat and meat products	249. Norfloxacin (NOR)	In-house method TE-CH-115
	(Fresh, Frozen, Processed)Aquatic animal tissue and aquatic animal tissue products	250. Ofloxacin (OFL)	based on Journal of Chromatography A
		251. Orbifloxacin (ORB)	Vol. 952, 2002, Page 121-129
		252. Pefloxacin (PEF)	
	(Fresh, Frozen, Processed)	253. Sarafloxacin (SAR)	
		254. Sparfloxacin (SPA)	
		255. Moisture	AOAC (2023) 950.46 (B)
		256. Ash	AOAC (2023) 920.153
		257. Total nitrogen and protein	In-house method TE-CH-042
			based on AOAC (2023) 981.10
		258. Phosphate (P ₂ O ₅)	In-house method TE-CH-059
	Malachite green		based on AOAC (2023) 986.24
		In-house method TE-CH-070 based on	
		259. Malachite green	Journal of AOAC International,
		260. Leuco-malachite green	Vol. 88, No. 3, 2005, Page 744-749
		261. Total malachite green	
		Crystal violet	
		262. Crystal violet	
		263. Leuco-crystal violet	
		264. Total crystal violet	
		265. Fat	In-house method TE-CH-014
			based on AOAC (2023) 948.15
13.	- Aquatic animal tissue and	266. Histamine	In-house method TE-CH-288
	aquatic animal tissue		based on Journal of Chromatography A,
	products		Vol. 1032, 2004, Page 79-85
	- Fish sauce		

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SAUVANCE Aronaut.

No.	Type of Sample	Test	Method
14.	Meat	267. Beta-agonist	Euro Proxima B.V, 5061 BAG (21) 04.20
15.	- Urine - Meat	Beta-agonist 268. Clenbuterol	In-house method TE-CH-044 based on Journal of Chromatography
		269. Salbutamol 270. Ractopamine	B, Vol. 813, 2004, Page 35-45
16.	Feeding stuffs	271. Moisture	In-house method TE-CH-359 based on ISO 6496:1999 (E)
		272. Ash	AOAC (2023) 942.05
17.	Feeding stuffs	273. Crude fiber	In-house method TE-CH-122 based on AOAC (2023) 978.10
		274. Fat	AOAC (2023) 954.02
		275. Total nitrogen and protein	In-house method TE-CH-250 based on AOAC (2023) 976.05
18.	Potable water	276. Aluminium (Al)	In-house method TE-CH-038
	- Drinking water	277. Arsenic (As)	based on Standard Methods for the
	- Drinking water in sealed container	278. Barium (Ba)	Examination of Water and
	- Tap water	279. Cadmium (Cd)	Wastewater, APHA, AWWA, WEF
	Non-Potable water	280. Chromium (Cr)	24 th Edition, 2023, Part 3030 E
	- Processed water- Surface water- Ground water	281. Copper (Cu)	
		282. Iron (Fe)	
	- Natural water	283. Lead (Pb)	
	• Ice	284. Manganese (Mn)	
	• Wastewater	285. Mercury (Hg)	

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(Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
18.	Potable water	286. Nickel (Ni)	In-house method TE-CH-038
	- Drinking water	287. Selenium (Se)	based on Standard Methods for the
	- Drinking water in sealed	288. Silver (Ag)	Examination of Water and
	container	289. Zinc (Zn)	Wastewater, APHA, AWWA, WEF,
	- Tap water	290. Magnesium (Mg)	24 th Edition, 2023, Part 3030 E
	Non-Potable water	291. Calcium (Ca)	
	- Processed water	292. Sodium (Na)	
	- Surface water	293. Potassium (K)	
	Ground waterNatural waterIceWastewater	294. Hexavalent chromium (Cr VI) 295. 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 3500-Cr B In-house method TE-CH-173 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition,
		296. Cyanide	 2023, Part 3030 E and 3500-Cr B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 4500-CN E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 4500-CN C and E

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No.	Type of Sample	Test	Method
18.	 Potable water - Drinking water - Drinking water in sealed container 	297. pH	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500 - H ⁺ B
	- Tap water • Non-Potable water - Processed water - Surface water - Ground water - Natural water	298. Phenol	 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 5530 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF,
	- Natural water • Ice • Wastewater	299. Oil and grease (Partition)	24 th Edition, 2023, Part 5530 B and Control 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
		300. Oil and grease (Soxhlet)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Par 5520 D
		301. Total dissolved solids (TDS)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Par 2540 C

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No.	Type of Sample	Test	Method
18.	 Potable water - Drinking water - Drinking water in sealed container 	302. 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
	- Tap water Non-Potable water - Processed water - Surface water - Ground water - Natural water Ice Wastewater	303. Anionic Surfactants as Methylene Blue Active Subatances (MBAS) - MBAS, calculated as Linear Alkylbenzene Sulfonate (LAS), MW = 238.38 - MBAS as ABS, Calculated as Linear Alkylbenzene Sulfonate (LAS), MW = 238.38	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5540 C
		Sulfonate (LAS), MW = 238.38 304. Color	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2120 C
		305. Color (ADMI)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2120 F
		306. Chloride 307. Chloride as Cl ₂	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-Cl B
		308. Fluoride 309. 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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Sacrabee Areyased. (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
18.	 Potable water Drinking water Drinking water in sealed container Tap water Non-Potable water Processed water Surface water 	310. Odour	 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
	- Ground water - Natural water • Ice • Wastewater	311. Total solids (TS)	TIS 257 No. 2, 1978, Page 5 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
		312. Turbidity	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2130 B
		313. Sulfate	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-SO ₄ ²⁻ E
		314. Chemical oxygen demand (COD)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5220 C

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Shounce Aromarel (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
18.	 Potable water - Drinking water - Drinking water in sealed container - Tap water Non-Potable water - Processed water - Surface water - Ground water - Natural water • Ice 	315. Free chlorine 316. Residual free chlorine 317. Chlorine as Cl ₂	 In-house method TE-CH-110 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 4500-C1 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 4500-C1 F
	Wastewater	318. Soluble phosphorus	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-P E
		319. Formaldehyde	In-house method TE-CH-202 based on ASTM D6303

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Savance Asmand (Ms. Savance Aromsook)

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No.	Type of Sample	Test	Method
19.	 Potable water Drinking water Drinking water in sealed container Tap water Non-Potable water Processed water Surface water 	320. Total nitrogen (Persulfate method) 321. Alkalinity	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 4500-N C In-house method TE-CH-117 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF,
	- Ground water - Natural water - Aquaculture water • Ice • Brackish water • Wastewater • Wastewater Aquaculture	322. Ammonia-nitrogen (Total ammonia nitrogen) 323. Ammonia (NH ₃)	24 th Edition, 2023, Part 2320 B - 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
	Aquaculture	324. Biochemical oxygen demand (BOD)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 5210 B
		325. Calcium hardness 326. 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

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Reviewed by Head of Laboratory Accreditation Section Sacrante Armsed.

No.	Type of Sample	Test	Method
19.	Potable water	327. Magnesium hardness	Standard Methods for the
	- Drinking water	328. Magnesium hardness as	Examination of Water and
	- Drinking water in sealed	CaCO ₃	Wastewater, APHA, AWWA, WEF,
	container		24 th Edition, 2023, Part 3500-Mg B
	- Tap water	329. Total hardness	Standard Methods for the
	Non-Potable water	330. Total hardness as CaCO ₃	Examination of Water and
	- Processed water		Wastewater, APHA, AWWA, WEF,
	- Surface water		24 th Edition, 2023, Part 2340 C
		331. Sulfide	Standard Methods for the
	Ground waterNatural waterAquaculture water		Examination of Water and
			Wastewater, APHA, AWWA, WEF,
			24 th Edition, 2023, Part 4500-S ²⁻ F
	• Ice	332. Hydrogen sulfide	Standard Methods for the
	Brackish water		Examination of Water and
	• Wastewater		Wastewater, APHA, AWWA, WEF,
	• Wastewater from		24 th Edition, 2023, Part 4500-S ²⁻ F
	Aquaculture	333. Nitrate	Standard Methods for the
		334. Nitrate as N	Examination of Water and
		335. Nitrate as NO ₃	Wastewater, APHA, AWWA, WEF,
			24 th Edition, 2023, Part 4500-NO ₃ E
		336. Nitrite	Standard Methods for the
		337. Nitrite as N	Examination of Water and
		338. Nitrite as NO ₂	Wastewater, APHA, AWWA, WEF,
		2	24 th Edition, 2023, Part 4500-NO ₂ E

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on Shovante Armani. (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
19.	Potable water Drinking water	339. Total suspended solids (TSS)	Standard Methods for the Examination of Water and
	- Drinking water in sealed container		Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 2540 D
	Tap waterNon-Potable waterProcessed water	340. Total phosphorus	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF,
	Surface waterGround water	Organochlorine group	24 th Edition, 2023, Part 4500-P E In-house method TE-CH-131
	Natural waterAquaculture water	341. aldrin 342. alpha-endosulfan	based on Standard Methods for the
	• Ice	343. beta-endosulfan	Examination of Water and Wastewater, APHA, AWWA, WEF,
	Brackish waterWastewater	344. cis-chlordan 345. dicofol	24 th Edition, 2023, Part 6410 B
	Wastewater from	346. dieldrin 347. endosulfansulfate	
	Aquaculture	348. endrin	
		349. heptachlor350. heptachlor epoxide	
		351. hexachlorobenzene 352. hexachlorocyclohexane	
		alpha isomer (alpha-BHC)	
		353. hexachlorocyclohexane beta isomer (beta-BHC)	

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Aromand.

No.	Type of Sample	Test	Method
19.	Potable water	Organochlorine group	In-house method TE-CH-131
	- Drinking water	354. hexachlorocyclohexane	based on Standard Methods for the
	- Drinking water in sealed	gamma isomer (lindane)	Examination of Water and
	container	355. o,p'-DDD	Wastewater, APHA, AWWA, WEF,
	- Tap water	356. o,p'-DDE	24 th Edition, 2023, Part 6410 B
	Non-Potable water	357. o,p'-DDT	
	- Processed water	358. p,p'-DDD	
	- Surface water	359. p,p'-DDE	
	- Ground water	360. p,p'-DDT	
	- Natural water	361. trans-chlordan	
	- Aquaculture water	Pyrethroids group	In-house method TE-CH-131
	• Ice	362. bifenthrin	based on Standard Methods for the
	Brackish water	363. cyfluthrin	Examination of Water and
	Wastewater	364. cypermethrin	Wastewater, APHA, AWWA, WEF
	Wastewater from	365. deltamethrin	24 th Edition, 2023, Part 6410 B
	Aquaculture	366. fenvalerate	
		367. lambda-cyhalothrin	
		368. permethrin	

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Promoch.

No.	Type of Sample	Test	Method
20.	Pesticide active ingredients	369. Abamectin	In-house method TE-CH-293
	and formulation	(%W/W, %W/V)	based on Acta Poloniae
			Pharmaceutica on Drug Research,
			Vol. 68, No. 4, 2011, Page 467-472
		370. Acetochlor	In-house method TE-CH-289
		(%W/W, %W/V)	based on Journal of AOAC
			International, Vol. 84, No. 2, 2001,
			Page 317-322
		371. Ametryn	In-house method TE-CH-344
		(%W/W)	based on CIPAC Handbook
			Volume H, 1998, Page 22-25
		372. Butachlor	In-house method TE-CH-290
		(%W/W, %W/V)	based on CIPAC Handbook
			Volume D, 1988, Page 17-19
		373. Carbaryl	In-house method TE-CH-351
		(% W/W)	based on CIPAC Handbook
			Volume M, 2009, Page 19-25
		374. Chlorothalonil	In-house method TE-CH-347
		(%W/W, %W/V)	based on CIPAC Handbook
			Volume K, 2003, Page 13-22
		375. Clomazone	In-house method TE-CH-387
		(%W/W, %W/V)	based on BCPB, A World
			Compendium The Pesticide Manual
			18 th Edition, Clomazone

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Shovenee

(Ms. Saovanee Aromsook)

Vo.	Type of Sample	Test	Method
20.	Pesticide active ingredients	376. Cypermethrin	In-house method TE-CH-291
	and formulation	(%W/W, %W/V)	based on CIPAC Handbook
			Volume 1C, 1985, Page 2047-2059
		377. Deltamethrin	In-house method TE-CH-292
		(%W/W, %W/V)	based on CIPAC Handbook
			Volume L, 2006, Page 45-60
		378. Dinotefuran	In-house method TE-CH-349
		(%W/W, %W/V)	based on CIPAC Handbook
			Volume L, 2006, Page 67-72
		379. Etofenprox	In-house method TE-CH-348
		(%W/W, %W/V)	based on CIPAC Handbook
			Volume G, 1995, Page 56-61
		380. Fipronil	In-house method TE-CH-294
		(%W/W, %W/V)	based on CIPAC Handbook
			Volume J, 2000, Page 60-65
		381. Glyphosate	In-house method TE-CH-354
		(%W/W, %W/V)	based on CIPAC Handbook
		382. Glyphosate ammonium	Volume H, 1998, Page 182-184
		(%W/W, %W/V)	
		383. Glyphosate	
		isopropylammonium	
		(Glyphosate isopropylamine)	
		(%W/W, %W/V)	

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Arconsol) (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
20.	Pesticide active ingredients and formulation	384. Imidacloprid (%W/W, %W/V)	In-house method TE-CH-352 based on CIPAC Handbook Volume H, 1998, Page 185-193
		385. Metalaxyl (%W/W)	In-house method TE-CH-345 based on CIPAC Handbook Volume E, 1993, Page 123-130
		386. Prochloraz (%W/W, %W/V)	In-house method TE-CH-353 based on CIPAC Handbook Volume M, 2009, Page 165-169
		387. Propanil (%W/W, %W/V)	In-house method TE-CH-388 based on BCPB, A World Compendium The Pesticide Manual 18 th Edition, Propanil
		388. Propiconazole (%W/W, %W/V)	In-house method TE-CH-346 based on CIPAC Handbook Volume G, 1995, Page 129-136
		389. Temephos (%W/W)	In-house method TE-CH-296 based on CIPAC Handbook Volume 1C, 1985, Page 2230-2233

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Shovance

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No.	Type of Sample	Test	Method
21.	Food	390. Bacillus cereus	FDA BAM Online, 2020
		(CFU, MPN)	(Chapter 14)
		391. Coliforms	FDA BAM Online, 2020 (Chapter 4)
		(MPN)	
		392. Escherichia coli	
		(MPN)	
		393. Fecal Coliforms	,
		(MPN)	
		394. Coliforms	AOAC (2023) 991.14
		(CFU)	
		395. Escherichia coli	
		(CFU)	
		396. Clostridium botulinum	FDA BAM Online, 2001
		(Detected or not detected)	(Chapter 17)
		397. Clostridium perfringens	FDA BAM Online, 2001
		(CFU, Detected or not	(Chapter 16)
		detected)	
		398. Enterococci / Fecal	Compendium of Methods for the
		Streptococci	Microbiological Examination of
		(CFU)	Foods (APHA) 5 th Edition. 2015,
			(Chapter 10)
		399. Staphylococcus aureus	FDA BAM Online, 2016
		(CFU, MPN, Detected or not	(Chapter 12)
		detected)	
		400. Vibrio cholerae	FDA BAM Online, 2004 (Chapter 9)
		(Detected or not detected)	

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Savanet Avondork. (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
21.	Food ¹	401. Vibrio parahaemolyticus (MPN)	FDA BAM Online, 2004 (Chapter 9)
		402. Yeasts and Molds (CFU)	AOAC (2023) 997.02
22.	Canned food	403. Flat Sour Mesophile (Detected or not detected) 404. Flat Sour Thermophile (Detected or not detected) 405. Incubation Test (Acceptable or not acceptable) 406. Mesophilic anaerobes (Detected or not detected) 407. Thermophilic anaerobes (Detected or not detected) 408. Putrefactive anaerobes (Detected or not detected)	FDA BAM Online, 2001 (Chapter 21A)
		409. Sulfide spoilage (Detected or not detected) 410. Clostridium botulinum (Detected or not detected)	TIS 335-2561 FDA BAM <i>Online</i> , 2001 (Chapter 17 and Chapter 21A)
23	 Food¹ Feeding stuffs and raw materials Carcass rinse 	411. Salmonella spp. (Detected or not detected)	ISO 6579-1:2017/Amd 1:2020 (E)

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Arensed. (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
24.	Food¹Feeding stuffs	412. <i>Listeria</i> spp. (Detected or not detected) 413. <i>Listeria monocytogenes</i> (Detected or not detected)	ISO 11290-1: 2017 (E)
		414. Vibrio spp. (Detected or not detected) 415. Vibrio cholerae (Detected or not detected) 416. Vibrio parahaemolyticus (Detected or not detected)	ISO 21872-1: 2017/Amd 1:2023 (E)
		417. Enterobacteriaceae (Detected or not detected)418. Coliforms(Detected or not detected)	ISO 21528-1 : 2017 (E) ISO 4831: 2006 (E)
		419. Escherichia coli (Detected or not detected)	ISO 7251: 2005 (E)
25.	- Food ¹ - Feeding stuffs and raw materials	420. Aerobic Plate Count (Total Plate Count) (CFU)	FDA BAM Online, 2001 (Chapter 3)
		421. Enterobacteriaceae (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition. 2015, (Chapter 9)
		422. Escherichia coli O157:H7 (Detected or not detected)	ISO 16654:2001/Amd 2:2023 (E)

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Armon

No.	Type of Sample	Test	Method
25.	- Food ¹ Feeding stuffs and raw	423. Lactic acid bacteria (CFU)	ISO 15214: 1998 (E)
	materials	424. Yeasts and Molds (CFU)	Compendium of Methods for the Microbiological Examination of Foods (APHA) 5 th Edition, 2015, (Chapter 21)
		425. <i>Campylobacter</i> spp. (Detected or not detected)	ISO 10272-1:2017/Amd 1:2023 (E)
26.	Swab	426. <i>Campylobacter</i> spp. (Detected or not detected)	ISO 10272-1:2017/Amd 1:2023 (E)
		427. Aerobic Plate Count (Total Plate Count) (CFU)	In-house method TE-MI-151 based on FDA BAM <i>Online</i> , 2001 (Chapter 3)
		428. Bacillus cereus (CFU, MPN, Detected or not detected)	In-house method TE-MI-139 based on FDA BAM <i>Online</i> , 2020 (Chapter 14)
		429. Clostridium perfringens (CFU, Detected or not detected)	In-house method TE-MI-140 based on FDA BAM <i>Online</i> , 2001 (Chapter 16)
		430. Coliforms	In-house method TE-MI-141
		(Detected or not detected) 431. Escherichia coli (Detected or not detected)	based on FDA BAM <i>Online</i> , 2020 (Chapter 4)
		432. Fecal Coliforms (Detected or not detected)	

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Sacranel Armin (Ms. Saovanee Aromsook)

No.	Type of Sample	Test	Method
26.	Swab	433. Coliforms	In-house method TE-MI-155
		(CFU)	based on Compendium of Methods
		434. Escherichia coli	for the Microbiological Examination
		(CFU)	of Foods (APHA) 5 th Edition. 2015,
			(Chapter 9)
		435. Enterobacteriaceae	In-house method TE-MI-154
		(CFU)	based on Compendium of Methods
			for the Microbiological Examination
			of Foods (APHA) 5 th Edition. 2015,
			(Chapter 9)
		436. Listeria monocytogenes	ISO 11290-1:2017 (E)
		(Detected or not detected)	
		437. Salmonella spp.	ISO 6579-1:2017/Amd 1:2020 (E)
		(Detected or not detected)	
		438. Staphylococcus aureus	In-house method TE-MI-143
		(CFU, MPN, Detected or not	based on FDA BAM Online, 2016
		detected)	(Chapter 12)
		439. Vibrio cholerae	In-house method TE-MI-145
		(Detected or not detected)	based on FDA BAM Online, 2004
			(Chapter 9)
		440. Yeasts and Molds	In-house method TE-MI-146
		(CFU)	based on Compendium of Methods
		441. Yeasts	for the Microbiological Examination
		(CFU)	of Foods (APHA) 5 th Edition, 2015,
		442. Molds	(Chapter 21)
		(CFU)	

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Shovenee

No.	Type of Sample	Test	Method
27.	 Potable water Drinking water Drinking water in sealed container 	443. 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
	 Tap water Non-Potable water Processed water Surface water Ground water Natural water 	444. Clostridium perfringens (CFU, Detected or not detected) 445. Clostridium perfringens (CFU, Detected or not detected)	Standard Committee of Analysis: The microbiology of drinking water, 2020, Part 6 ISO 14189: 2013 (E)
	 Aquaculture water Ice Brackish water Wastewater Wastewater from Aquaculture 	446. Coliforms (MPN)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9221 B
		447. Escherichia coli (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
		448. Enterococci (CFU, Detected or not detected)	ISO 7899 - 2 : 2000 (E)
		449. 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

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Savence Aronsok)

No.	Type of Sample	Test	Method
27.	 Potable water Drinking water Drinking water in sealed container 	450. Fecal Coliforms (CFU)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part
	 Tap water Non-Potable water Processed water Surface water Ground water Natural water Aquaculture water 	451. Pseudomonas aeruginosa (CFU, Detected or not detected) 452. Salmonella spp. (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9213 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9274 B
	 Ice Brackish water Wastewater Wastewater from	453. Staphylococcus aureus (CFU, Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9213 B
	Aquaculture	454. Vibrio cholerae (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th Edition, 2023, Part 9278 B

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story Accreditation Section 54016

Shovanu Arman, (Ms. Saovanee Aromsook)

Food ¹	
1. Meat and meat products (Fresh, Frozen, Processed)	14. Bean and bean products
2. Poultry and poultry products (Fresh, Frozen, Processed)	15. Semi process food
3. Aquatic animal tissue and aquatic animals tissue products	16. Ready to eat food
(Fresh, Frozen, Processed)	17. Fish sauce and sauce
4. Fruit and fruit products (Fresh, Frozen, Processed)	18. Spice and other condiments
5. Vegetable and vegetable products (Fresh, Frozen, Processe	ed) 19. Flavors enhancer
6. Starch and starch products	20. Snack cookies biscuit and cracker
7. Cereal and cereal products	21. Jam and jelly
8. Nut and nut products	22. Candy and chewing gum
9. Milk and milk products	23. Chocolate
10. Egg and egg products	24. Ice-cream
11. Algae and algae products	25. Honey
12. Noodle and noodle products	26. Potato and potato products
13. Tea and coffee	27. Herbal and herbal products
Food ²	
1. Starch and starch products	8. Curry paste, dried chilli, chilli paste
2. Cereal and cereal products	9. Spice and other condiments
3. Nut and nut products	10. Flavors enhancer
4. Fruit and fruit products (Fresh, Frozen, Processed)	11. Snack cookies biscuit and cracker
5. Vegetable and vegetable products (Fresh, Frozen, Processed)	12. Beverage from cereals
6. Algae and algae products	13. Soybean oil, palm oil, coconut oil, sesame oil
7. Semi process food	14. Herbal and herbal products

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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

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Savence

(Ms. Saovanee Aromsook)