Bureau of Laboratory Quality Standards
Ministry of Public Health

This is to certify that

The laboratory of

Central Laboratory (Thailand) Co., Ltd.
Chiang Mai Branch

164/86 Moo 3, Donkaew, Maerim,
Chiang Mai 50180, 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

(Mr.Surasak Muenphon)
Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 22 July 2025
Valid Until : 21 July 2029

Accreditation Number 1079/48

The laboratory of Central Laboratory (Thailand) Co., Ltd. Chiang Mai 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.	- Non-potable Water • Supply water • Natural water • Cooling water • Water to be used in the factory • Swimming pool water - Potable Water • Drinking water in sealed container • Drinking water in non-sealed • Process water • Filtered water	1. Lead (Pb) 2. Cadmium (Cd) 3. Mercury (Hg) 4. Arsenic (As) 5. Iron (Fe) 6. Silver (Ag) 7. Aluminum (Al) 8. Barium (Ba) 9. Chromium (Cr) 10. Copper (Cu) 11. Manganese (Mn) 12. Selenium (Se) 13. Zinc (Zn)	In-house method TE-CH-037 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 3030 E, 3125 B
		14. *Legionella* spp. (CFU, Detected or not detected)	ISO 11731: 2017

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No.	Type of Sample	Test	Method
2.	- Non-potable Water • Supply water • Natural water • Cooling water • Water to be used in the factory • Swimming pool water - Potable Water • Drinking water in sealed container • Drinking water in non-sealed • Process water • Filtered water - Waste water - Ice - Beverage	15. *Escherichia coli* 16. Coliforms 17. Fecal Coliforms (Detected or not detected, MPN)	Standard Methods for the Examination of Water and Wastewater APHA, AWWA, WEF, 24th Edition, 2023, Part 9221
		18. Total Plate Count (CFU)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, 9215
		19. *Salmonella* spp. (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 9274
		20. *Staphylococcus aureus* (CFU, Detected or not detected)	Standard methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023, Part 9213
		21. *Clostridium perfringens* (CFU, Detected or not detected)	ISO 14189: 2013

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No.	Type of Sample	Test	Method
3.	- Non-potable Water • Supply water • Natural water • Cooling water • Water to be used in the factory • Swimming pool water - Wastewater - Water from Air conditioning and Cooling system	22. *Legionella* spp. (Detected or not detected, GU)	microproof® *Legionella* Quantification LyoKit

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No.	Type of Sample	Test	Method
4.	Honey	23. Chloramphenicol	EuroProxima Chloramphenicol ELISA 5091CAP [24] 02.24
		24. Chloramphenicol	In-house method TE-CH-168 based on Journal of Chromatography A. (2006) Vol. 1118, P. 226-233 and APIACTA 42 (2007), P. 25-30
		Nitrofuran Metabolites (Total residues) 25. 1-Aminohydantoin (AHD) 26. Semicarbazide (SEM) 27. 3-amino-2-oxazolidinone (AOZ) 28. 3-amino-5-morpholinomethyl-2-oxazolidinone (AMOZ)	In-house method TE-CH-133 based on Journal of Chromatography B. (1997) Vol. 691, P. 87-94
		29. Hydroxymethylfurfural (HMF)	Food Control, (2005), Vol. 16, Page 273-277
		Tetracyclines group 30. Oxytetracycline (OTC) 31. Tetracycline (TC) 32. Doxycycline (DTC) 33. Chlortetracycline (CTC)	In-house method TE-CH-385 based on Food Sci. Technol, Campinas, 36(1), Jan.-Mar. 2016 Page 90-96

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No.	Type of Sample	Test	Method
4.	Honey	Sulfonamides group 34. Sulfadiazine (SDZ) 35. Sulfapyridine (SPD) 36. Sulfathiazole (STZ) 37. Sulfamerazine (SMR) 38. Sulfamethazine (SMZ) 39. Sulfamonomethoxine (SMONO) 40. Sulfachloropyridazine (SCPD) 41. Sulfamethoxazole (SMXZ) 42. Sulfisoxazole (SIX) 43. Sulfadimethoxine (SDMX) 44. Sulfaquinoxaline (SQX)	In-house method TE-CH-385 based on Food Sci. Technol, Campinas, 36(1), Jan.-Mar. 2016 Page 90-96
		45. Streptomycin	In-house method TE-CH-384 based on Arkansas Regional Laboratory Food and Drug Administration Jefferson, AR 72079. LIB#4560, March 2014

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No.	Type of Sample	Test	Method
5.	Fruits and Vegetables - High Water and Chlorophyll - High Water and Low or No Chlorophyll	Pesticide Residues: Organochlorine group 46. hexachlorocyclohexane alpha-isomer (alpha-BHC) 47. hexachlorocyclohexane beta-isomer (beta-BHC) 48. hexachlorocyclohexane gamma-isomer (gamma-BHC or Lindane) 49. dicofol 50. heptachlor 51. heptachlor epoxide 52. alpha-chlordane 53. gamma-chlordane 54. alpha-endosulfan 55. beta-endosulfan 56. endosulfan sulfate 57. o, p'-DDE 58. o, p'-DDD 59. p, p'-DDD 60. o, p'-DDT 61. p, p'-DDT 62. aldrin 63. dieldrin 64. endrin 65. hexachlorobenzene 66. p,p'-DDE	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-line Method for Extracting and Isolating Pesticide Residue and Industrial Chemicals Fresenius Z. Chem. (1985), No. 1155

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No.	Type of Sample	Test	Method
5.	Fruits and Vegetables - High Water and Chlorophyll - High Water and Low or No Chlorophyll	Pesticide Residues: Organophosphate group 67. methamidophos 68. mevinphos 69. dicrotophos 70. monocrotophos 71. prothiofos 72. profenofos 73. triazofos 74. azinphos-ethyl 75. pirimiphos-ethyl 76. pirimiphos-methyl 77. parathion-methyl 78. chlorpyrifos 79. DDVP (Dichlorvos) 80. diazinon 81. ethion 82. fenitrothion 83. malathion 84. methidathion 85. parathion-ethyl 86. dimethoate 87. omethoate 88. phosalone 89. EPN	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-line Method for Extracting and Isolating Pesticide Residue and Industrial Chemicals Fresenius Z. Chem. (1985), No. 1155

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No.	Type of Sample	Test	Method
5.	Fruits and Vegetables - High Water and Chlorophyll - High Water and Low or No Chlorophyll	Pesticide Residues: Pyrethroid group 90. bifenthrin 91. cyfluthrin 92. lambda cyhalothrin 93. cypermethrin 94. deltamethrin 95. permethrin 96. fenvalerate Carbamate group 97. aldicarb 98. aldicarb sulfoxide 99. aldicarb sulfone 100. fenobucarb 101. isoprocarb 102. methiocarb 103. carbofuran 104. 3-hydroxy carbofuran 105. carbaryl 106. oxamyl 107. methomyl 108. promecarb	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-line Method for Extracting and Isolating Pesticide Residue and Industrial Chemicals Fresenius Z. Chem. (1985), No. 1155

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No.	Type of Sample	Test	Method
6.	- Cereal and Cereal products - Peanut - Chili	109. Aflatoxin B1 110. Aflatoxin B2 111. Aflatoxin G1 112. Aflatoxin G2 113. Total Aflatoxin	In-house method TE-CH-025 based on AOAC (2023) 991.31 and 994.08
7.	Food* Except Onion, Leek and Cabbage	114. Sulfite as Sulfur dioxide (SO_2)	AOAC (2023) 990.28
8.	- Meat and Meat products - Flour and Flour Products - Cereal and Cereal products	115. Ash	- AOAC (2023) 920.153 - AOAC (2023) 923.03
		116. Moisture	- AOAC (2023) 950.46 (b) - AOAC (2023) 925.10
9.	Food* Except Milk and Milk Products	117. Fat	In-house method TE-CH-014 based on AOAC (2023) 948.15
10.	Food*	118. Protein	In-house method TE-CH-012 based on AOAC (2023) 991.20
		119. Carbohydrate and Energy	Method of Analysis for Nutrition Labeling (1993), Chapter 6 Proximate and Mineral Analysis

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No.	Type of Sample	Test	Method
10.	Food*	120. Total Sugar (Invert Sugar) 121. Reducing sugar	In-house method TE-CH-074 based on AOAC (2023) 906.03
		122. Total Dietary Fiber	AOAC (2023) 985.29
		123. Lead (Pb) 124. Cadmium (Cd) 125. Mercury (Hg) 126. Arsenic (As) 127. Copper (Cu) 128. Zinc (Zn)	In-house method TE-CH-260 based on AOAC (2023) 2013.06 and 999.10
		129. Calcium (Ca) 130. Potassium (K) 131. Sodium (Na) 132. Iron (Fe)	In-house method TE-CH-170 based on AOAC (2023) 984.27 and 999.10
		133. Tin (Sn)	In-house method TE-CH-340 based on AOAC (2023) 985.16
		134. Benzoic acid 135. Sorbic acid	In-house method TE-CH-020 based on Standard Methods for Food Analysis Thailand. 1st Edition 2017, Volume V, DMSc F 1072.

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No.	Type of Sample	Test	Method
10.	Food*	136. Enterobacteriaceae (CFU)	AOAC (2023) 2003.01
		137. Fecal Streptococcus (CFU)	Compendium of methods for the Microbiological Examination of Foods (APHA), 5th Edition, 2015 Chapter 10
		138. Aerobic Plate Count (CFU)	FDA BAM *Online*, 2001 (Chapter 3)
		139. Fecal Coliforms 140. Coliforms 141. *Escherichia coli* (MPN)	FDA BAM *Online*, 2020 (Chapter 4)
		142. Coliforms 143. *Escherichia coli* (CFU)	AOAC (2023) 991.14
		144. *Salmonella* spp. (Detected or not detected)	ISO 6579-1: 2017/Amd.1: 2020 (E)
		145. *Bacillus cereus* (CFU, MPN)	FDA BAM *Online*, 2020 (Chapter 14)
		146. *Staphylococcus aureus* (CFU, Detected or not detected, MPN)	FDA BAM *Online*, 2016 (Chapter 12)
		147. Yeasts and Molds (CFU)	FDA BAM *Online*, 2001 (Chapter 18)

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No.	Type of Sample	Test	Method
10.	Food*	148. *Clostridium perfringens* (CFU, Detected or not detected)	FDA BAM *Online*, 2001 (Chapter 16)
		149. *Vibrio parahaemolyticus* (MPN)	FDA BAM *Online*, 2004 (Chapter 9)
		150. *Vibrio cholerae* (Detected or not detected)	FDA BAM *Online*, 2004 (Chapter 9)
		151. *Listeria monocytogenes* (Detected or not detected)	ISO 11290-1: 2017
		152. *Listeria* spp. (Detected or not detected)	ISO 11290-1: 2017
		153. Yeast and Molds (CFU)	AOAC (2023) 2014.05
11.	Mango	154. Propiconazole	In-house method TE-CH-274 based on Bulletin of the Chemists and Technologists of Macedonia. Vol. 19 No.1 Page 27-33
12.	Feed and Feeding Stuffs	155. Moisture	AOAC (2023) 930.15
		156. Ash	AOAC (2023) 942.05
		157. Protein	In-house method TE-CH-012 based on AOAC (2023) 991.20
		158. Fat	In-house method TE-CH-189 based on AOAC (2023) 954.02

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No.	Type of Sample	Test	Method
13.	Soil	159. Arsenic (As) 160. Cadmium (Cd) 161. Lead (Pb)	In-house method TE-CH-329 based on A Handbook of Soil analysis 1/2553 and Environmental Protection Agency (EPA) 3052, 1996
14.	Fresh Longan	162. Carbendazim 163. Benomyl 164. Thiophanate-Methyl	In-house method TE-CH-468 based on BS EN 15662: 2018

Note:

Food*

1. Meat and Meat Products (Raw, Frozen, Dried)
2. Poultry and Poultry Products (Raw, Frozen, Dried)
3. Vegetable and Vegetable Products (Fresh, Frozen, Dried)
4. Fruit and Fruit Products (Fresh, Frozen, Dried)
5. Flour and Flour Products
6. Cereal and Cereal Products
7. Nuts and Nuts Products
8. Beans and Beans Products
9. Milk and Milk Products
10. Egg and Egg Products
11. Algae and Algae Products
12. Noodles and Noodles Products
13. Tea and Coffee
14. Semi-instant Foods
15. Ready-to-Eat Foods
16. Fish Sauce and Other Kinds of Sauce
17. Seasoning
18. Beverage in sealed containers

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