

The scope of recognition

(The tests have been accredited with ISO/IEC 17025)

Name of Laboratory : MNAQ Lab (Thailand) Limited

Address : 111 Moo 9 Paholyothin Road, Klong Nueng,
Klong Luang, Patumthani 12120, Thailand

No. LAB: AC 0929014

Type of Sample	Test	Method
Food ¹	1. Total Plate Count / Aerobic Plate Count (CFU)	- FDA BAM <i>Online</i> , 2001 (Chapter 3) - AOAC (2023) 966.23
	2. Coliform Bacteria (MPN, CFU, Detected or not detected)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
	3. <i>Escherichia coli</i> (MPN, CFU, Detected or not detected)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
	4. Fecal Coliforms (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
	5. <i>Staphylococcus aureus</i> (MPN, CFU, Detected or not detected)	- FDA BAM <i>Online</i> , 2016 (Chapter 12) - AOAC (2023) 987.09 - AOAC (2023) 975.55
	6. <i>Vibrio cholerae</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2004 (Chapter 9)
	7. <i>Vibrio parahaemolyticus</i> (MPN, Detected or not detected)	FDA BAM <i>Online</i> , 2004 (Chapter 9)
	8. <i>Vibrio</i> spp. (Detected or not detected)	FDA BAM <i>Online</i> , 2004 (Chapter 9)
	9. Yeasts and Molds (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 18)
	10. <i>Listeria monocytogenes</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2022 (Chapter 10)

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Type of Sample	Test	Method
Food ¹	11. <i>Listeria</i> spp. (Detected or not detected)	FDA BAM <i>Online</i> , 2022 (Chapter 10)
	12. <i>Bacillus cereus</i> (CFU)	ISO 7932 : 2004/Amd.1:2020
	13. <i>Bacillus cereus</i> (MPN, CFU)	FDA BAM <i>Online</i> , 2020 (Chapter 14)
	14. <i>Salmonella</i> spp. (Detected or not detected)	FDA BAM <i>Online</i> , 2023 (Chapter 5)
	15. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
	16. <i>Shigella</i> (Detected or not detected)	Compendium of Methods for the Microbiological Examination of Foods, (APHA), 5 th Edition 2015, Chapter 37
	17. <i>Clostridium perfringens</i> (CFU, Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 16)
	18. <i>Enterococci</i> / <i>Enterococcus</i> spp. (CFU)	Compendium of Methods for the Microbiological Examination of Foods, (APHA), 5 th Edition 2015, Chapter 10
	19. Lactic acid bacteria (CFU)	ISO 15214 : 1998
	20. Enterobacteriaceae (CFU)	ISO 21528-2:2017

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Type of Sample	Test	Method
- Ready-to-eat (Processed, Chilled, Frozen)	21. Aerobic Plate count (CFU)	AOAC (2023) 2015.13
	22. Coliform (CFU)	AOAC (2023) 991.14
	23. <i>Escherichia coli</i> (CFU)	AOAC (2023) 991.14
- Beverage		
Food in sealed containers included canned food commercial sterile low acid food pH > 4.6	- Incubation test (Normal or Abnormal)	- FDA BAM <i>Online</i> , 2001 (Chapter 21A)
	24. Flat sour mesophile bacteria (Detected or not detected)	- Compendium of Methods for the Microbiological Examination of Foods, (APHA), 5 th Edition 2015, Chapter 61
	25. Flat sour thermophile bacteria (Detected or not detected)	
	26. Mesophile anaerobe (Detected or not detected)	
	27. Thermophile anaerobe (Detected or not detected)	
	28. Mesophile aerobe (Detected or not detected)	
	29. Thermophile aerobe (Detected or not detected)	

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Type of Sample	Test	Method
Food in sealed containers included canned food commercial sterile high acid food pH \leq 4.6	- Incubation test (Normal or Abnormal) 30. Flat sour mesophile bacteria (Detected or not detected) 31. Flat sour thermophile bacteria (Detected or not detected) 32. Aciduric spoilage bacteria (Detected or not detected) 33. Mesophile aerobe (Detected or not detected) 34. Thermophile aerobe (Detected or not detected)	- FDA BAM <i>Online</i> , 2001 (Chapter 21A) - Compendium of Methods for the Microbiological Examination of Foods, (APHA), 5 th Edition 2015, Chapter 61
Beverage (liquid and powder)	35. Saccharin	In-house method TPT-FS-265TM based on Bull. Dept. Med. Sci. 1992; 34 (1): p.31-6
Flour and flour products (Fresh, Frozen, Processed)	36. Vitamin A	In-house method TPT-FS-262TM Based on ISO 12080-2: 2000 (E)
	37. Vitamin B1 38. Vitamin B2	In-house method TPT-FS-271TM based on AOAC (2023), 942.23, 953.17 and Food Chemistry (1996), Vol.56, No.1, pp.81-86.

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Type of Sample	Test	Method
Flour and flour products (Fresh, Frozen, Processed)	39. Vitamin D	In-house method TPT-FS-277TM based on AOAC (2023) 2002.05 and ISO 12080-2: 2000 (E)
- Flour and flour products (Fresh, Frozen, Processed) - Beverage (liquid and powder)	40. Vitamin C	In-house method TPT-FS-275TM based on Bull. Dept. med. Sci. 1998; 40 (3): 347-57
Flour and flour products (Fresh, Frozen, Processed)	41. Total Dietary Fiber	AOAC (2023) 985.29
	42. Total sugar 43. Sugar profiles - Fructose - Glucose - Sucrose - Maltose - Lactose	In-house method TPT-FS-259TM based on AOAC (2023) 982.14 and J. AOAC (1992) Vol 75 No. 3
	44. Saturated Fatty Acid 45. Trans Fat 46. Mono unsaturated fat 47. Poly unsaturated fat 48. Fatty acid profiles	In-house method TPT-FS-261TM based on AOAC (2023) 991.39 and ISO 12966-2:2017

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Type of Sample	Test	Method
Flour and flour products (Fresh, Frozen, Processed)	49. Cholesterol	In-house method TPT-FS-260TM based on AOAC (2023) 994.10 and 976.26
	50. Fat	AOAC (2023) 922.06
	51. Protein	AOAC (2023) 920.87
	52. Ash	AOAC (2023) 923.03
	53. Total Solid and Moisture	- AOAC (2023) 925.10 - AOAC (2023) 945.39 (A)
	54. Total carbohydrate 55. Available Total carbohydrate 56. Available Energy/Calories 57. Energy/Calories 58. Calories from fat 59. Energy from fat	Ralph Shapiro, 1995 Nutrition Labeling Handbook. Marcel Dekker Inc. New York
Flour and flour products (Fresh, Frozen, Processed)	60. Sodium 61. Calcium 62. Iron 63. Potassium	In-house method TPT-FS-252TM based on AOAC (2023) 984.27

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Type of Sample	Test	Method
Food ¹	64. Cadmium (Cd) 65. Lead (Pb) 66. Copper (Cu) 67. Iron (Fe) 68. Zinc (Zn) 69. Tin (Sn) 70. Mercury (Hg) 71. Arsenic (As)	In-house method TPT-FS-282TM based on AOAC (2023) 2015.01
- Beverage (liquid and powder) - Candy	Synthetic Color 72. Tartrazine 73. Amaranth 74. Indigotine or Indigo Carmine 75. Ponceau 4RC 76. Brilliant Black BN 77. Sunset Yellow 78. Allura Red AC 79. Fast Green FCF 80. Brilliant Blue FCF 81. Azorubin or Carmoisine 82. Quinoline Yellow 83. Erythrosin	In-house method TPT-FS-273TM Based on AOAC (2023) 930.38 and TIS 696: 1987

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Type of Sample	Test	Method
- Coconut milk - Canned fruit	84. Total Acidity	AOAC (2023) 942.15
- Coconut milk - Canned fruit	85. Salt (Chlorine as Sodium chloride)	AOAC (2023) 937.09
- Beverage (liquid and powder) - Flour and flour products (Fresh, Frozen, Processed)	86. Sulfur dioxide 87. Potassium sulfite 88. Sodium bisulfate 89. Potassium bisulfate 90. Sodium metabisulfite 91. Potassium metabisulfate 92. Sulfite	AOAC (2023) 990.28
Flour and flour products	93. Total Phosphorus (Total Phosphorus as P_2O_5 and PO_4)	In-house method TPT-FS-270TM based AOAC (2023) 969.31
Cereal and cereal products	94. Aflatoxin (B1, B2, G1, G2)	In-house method TPT-FS-247TM based on AOAC (2023) 991.31 and 994.08
- Flour and flour products (Fresh, Frozen, Processed) - Beverage	95. Benzoic acid 96. Sodium Benzoate 97. Sorbic Acid 98. Potassium Sorbate	In-house method TPT-FS-264TM based on Bull. Dept. Med. Sci. 1992; 34(1): p31-6

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Type of Sample	Test	Method
<ul style="list-style-type: none"> - Fruit and fruit products - Vegetable and vegetable products - Rice - Cereal and cereal products 	Pesticides residue group : - Organochlorine group 99. aldrin 100. alpha-BHC 101. beta-BHC 102. delta-BHC 103. gamma-BHC 104. cis-Chlordane 105. trans-Chlordane 106. o,p'-DDT 107. p,p'-DDT 108. dicofol 109. dieldrin 110. endosulfan I 111. endosulfan II 112. endosulfan sulfate 113. endrin 114. heptachlor 115. heptachlor-epoxide	In-house method TPT-FS-229TM based on AOAC (2023) 2007.01

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Type of Sample	Test	Method
- Fruit and fruit products - Vegetable and vegetable products - Rice - Cereal and cereal products (Cont.)	Pesticides residue group : - Organochlorine group 116. methoxychlor 117. o,p'-DDE 118. p,p'-DDE 119. o,p'-DDD 120. p,p'-DDD 121. mirex 122. endrin ketone - Organophosphate group 123. acephate 124. azinphos-ethyl 125. azinphos-methyl 126. chlorpyrifos 127. chlorpyrifos-methyl 128. dichlorvos 129. diazinon 130. disulfoton 131. dicrotophos	In-house method TPT-FS-229TM based on AOAC (2023) 2007.01

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Type of Sample	Test	Method
- Fruit and fruit products - Vegetable and vegetable products - Rice - Cereal and cereal products (Cont.)	Pesticides residue group : - Organophosphate group 132. dimethoate 133. EPN 134. ethion 135. fenitrothion 136. malathion 137. methamidophos 138. methidathion 139. mevinphos 140. monocrotophos 141. omethoate 142. parathion-ethyl 143. parathion-methyl 144. phosalone 145. pirimiphos-ethyl 146. pirimiphos-methyl 147. profenofos 148. prothiophos	In-house method TPT-FS-229TM based on AOAC (2023) 2007.01

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Type of Sample	Test	Method
- Fruit and fruit products - Vegetable and vegetable products - Rice - Cereal and cereal products (Cont.)	Pesticides residue group : - Organophosphate group 149. triazophos 150. phosphamidon - Pyrethroids Pesticides 151. bifenthrin 152. cyfluthrin 153. cypermethrin 154. deltamethrin 155. fenvalerate 156. lamda-Cyhalothrin 157. permethrin 158. fenpropathrin	In-house method TPT-FS-229TM based on AOAC (2023) 2007.01
	- Carbamate group 159. aldicarb 160. aldicarb sulfone 161. aldicarb sulfoxide 162. carbofuran 163. carbofuran-3-hydroxy	In-house method TPT-FS-241TM based on AOAC (2019) 2007.01

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- Fruit and fruit products - Vegetable and vegetable products - Rice - Cereal and cereal products (Cont.)	- Carbamate group 164. carbaryl 165. fenobucarb 166. isoprocarb 167. methiocarb 168. methomyl 169. metolcarb 170. oxamyl 171. propoxur 172. promecarb	In-house method TPT-FS-241TM based on AOAC (2023) 2007.01
	Pesticides residue group : - Other 173. atrazine 174. azoxystrobin 175. iprodione 176. vinclozolin	In-house method TPT-FS-229TM based on AOAC (2023) 2007.01

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Remark

Food ¹ as describe

1. Vegetable and vegetable products (Fresh, Dried, Chilled, Frozen)
2. Fruit and fruit products (Fresh, Dried, Chilled, Frozen)
3. Flour and flour products
4. Rice Noodles
5. Instant Noodles (No meat mixture)
6. Jam, Margarine
7. Ready-to-eat (Processed, Chilled, Frozen) (No meat mixture)
8. Ice cream
9. Seasoning
10. Cereal and cereal products
11. Canned food and Food in sealed container (No meat mixture)
12. Beverage

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