



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

This is to certify that

The laboratory of

**Central Laboratory (Thailand) Co., Ltd.
(Khon Kaen Branch)**

**117/4 Moo 14, Nai Muang, Muang Khon Kaen,
Khon Kaen 40000, Thailand**

has been accepted as an
accredited laboratory complying with the ISO/IEC 17025:2017
and the requirement 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. Patavee Soisangwan)

Director of Bureau of Laboratory Quality Standards

Date of Accreditation: 24 February 2023

Valid Until : 23 February 2027

Accreditation Number 1096/49

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

No.	Type of Sample	Test	Method
1.	Food *	1. Aerobic plate count (Total plate count) (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 3)
			AOAC (2023) 990.12
		2. Coliforms (MPN) 3. <i>Escherichia coli</i> (MPN) 4. Fecal coliforms (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
		5. Coliforms (CFU) 6. <i>Escherichia coli</i> (CFU)	AOAC (2023) 998.08
			AOAC (2023) 991.14
		7. Coliforms (CFU)	ISO 4832:2006
		8. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
		9. <i>Staphylococcus aureus</i> (MPN, CFU)	FDA BAM <i>Online</i> , 2016 (Chapter 12)
			AOAC (2023) 2003.07
			AOAC (2023) 2003.08
			AOAC (2023) 2003.11

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No.	Type of Sample	Test	Method
1.	Food *	10. <i>Vibrio cholerae</i> (Detected or not detected)	FDA BAM Online, 2004 (Chapter 9)
		11. <i>Listeria</i> spp. (Detected or not detected)	ISO 11290-1:2017
		12. <i>Listeria monocytogenes</i> (Detected or not detected)	ISO 11290-1:2017
		13. Yeast and Mold (CFU)	FDA BAM Online, 2001 (Chapter 18)
			AOAC (2023) 997.02
		14. <i>Bacillus cereus</i> (CFU)	FDA BAM Online, 2020 (Chapter 14)
		15. <i>Clostridium perfringens</i> (Detected or not detected, CFU)	FDA BAM Online, 2001 (Chapter 16)
		16. Enterobacteriaceae (CFU)	AOAC (2023) 2003.01
2.	Sugar	17. Enterococcus (CFU)	NordVal No. 047 Compact Dry ETC
		18. Aerobic plate count (Total plate Count) (CFU)	FDA BAM Online, 2001 (Chapter 3)
		19. <i>Escherichia coli</i> (MPN)	FDA BAM Online, 2020 (Chapter 4)

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No.	Type of Sample	Test	Method
2.	Sugar	20. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
		21. <i>Staphylococcus aureus</i> (MPN)	FDA BAM Online, 2016 (Chapter 12)
		22. Yeast and Mold (CFU)	FDA BAM Online, 2001 (Chapter 18)
		23. <i>Bacillus cereus</i> (MPN, CFU)	FDA BAM Online, 2020 (Chapter 14)
		24. <i>Clostridium perfringens</i> (Detected or not detected, CFU)	FDA BAM Online, 2001 (Chapter 16)
3.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory Ice 	25. <i>Clostridium perfringens</i> (Detected or not detected, CFU)	ISO 6461-2:1986 and FDA BAM Online, 2001 (Chapter 16)
		26. 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
		27. Coliforms (MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 9221 B

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No.	Type of Sample	Test	Method
3.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> Drinking water Drinking water in sealed container Tap water Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> Surface water Ground water Water to be used in the factory Ice 	28. Fecal coliforms (MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 9221 E
		29. <i>Escherichia coli</i> (Detected or not detected, MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 9221 F
		30. <i>Salmonella</i> spp. (Detected or not detected)	ISO 19250: 2010 (E)
		31. <i>Staphylococcus aureus</i> (Detected or not detected, CFU)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 9213 B and FDA BAM <i>Online</i> , 2016, Chapter 12

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No.	Type of Sample	Test	Method
4.	<ul style="list-style-type: none"> ● Powdered Beverage ● Beverage * 	Sweetener 32. Acesulfame-K 33. Aspartam 34. Na-Cyclamate 35. Saccharin 36. Sucralose	In-house method TE-CH-408 based on Journal of Agricultural and Food Chemistry, Vol. 57, No.8 (2009)
5.	<ul style="list-style-type: none"> - Cereal - Peanut - Dried chilli - Cayenne pepper 	37. Aflatoxin B1, B2, G1, G2, Total aflatoxin	In-house method TE-CH-025 based on AOAC (2023) 991.31 and 994.08
6.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process ● Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory ● Ice 	38. Fluoride 39. 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
6.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> Drinking water Drinking water in sealed container Tap water Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> Surface water Ground water Water to be used in the factory Ice 	40. Nitrate 41. Nitrate as N 42. Nitrate as NO_3^-	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500 - NO_3^- E
		43. Nitrite 44. Nitrite as N 45. Nitrite as NO_2^-	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500 - NO_2^- B
7.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> Drinking water Drinking water in sealed container Tap water Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> Surface water Ground water Ice 	46. 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
8.	- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues 47. alpha-BHC or alpha- HCH 48. aldrin (HHDN) 49. alpha-endosulfan 50. beta-BHC or beta-HCH 51. beta-endosulfan 52. bifenthrin 53. cis-chlordane 54. cyfluthrin 55. cypermethrin 56. deltamethrin 57. dicofol 58. dieldrin (heod) 59. endrin 60. endosulfan sulfate 61. fenvalerate 62. heptachlor 63. heptachlor epoxide 64. lambda-cyhalothrin 65. lindane 66. o,p'-DDT 67. p,p'-TDE (DDD)	In-house method TE-CH-030 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754

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No.	Type of Sample	Test	Method
8.	- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues 68. p,p'-DDE 69. p,p'-DDT 70. permethrin 71. trans-chlordane 72. acephate 73. azinphos-ethyl 74. chlorpyrifos 75. diazion 76. dichlorvos 77. dicrotophos 78. dimethoate 79. EPN 80. ethion 81. fenitrothion 82. malathion 83. methamidophos 84. mevinphos 85. monocrotophos 86. phosalone 87. pirimiphos-methyl 88. parathion-methyl	In-house method TE-CH-031 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754

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No.	Type of Sample	Test	Method
8.	- Vegetables and fruits (High water content) - Vegetables and fruits (High acid content and high water content)	Pesticide residues 89. pirimiphos-ethyl 90. parathion 91. prothiophos 92. profenophos 93. triazophos 94. 3-hydroxycarbofuran 95. aldicarb sulfoxide 96. aldicarb sulfone 97. aldicarb 98. carbofuran 99. carbaryl 100. fenobucarb 101. isoprocarb 102. methomyl 103. methiocarb sulfoxide 104. methiocarb 105. methiocarb sulfone 106. oxamyl 107. promecarb 108. thiodicarb	In-house method TE-CH-032 based on Steinwandter, H. Universal 5 min On-Line Method for Extracting and Isolating Pesticide Residues and Industrial Chemicals, Fresenius Z Anal. Chem., 322 (1985). P.752-754

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No.	Type of Sample	Test	Method
9.	Powdered Beverage	109. Benzoic acid 110. Sorbic acid	In-house method TE-CH-020 based on Nordic Committee on Food Analysis, 2 nd Edition, No.124, 1997
		Synthetic colors 111. Amaranth 112. Fast Green FCF 113. Tartrazine 114. Sunset Yellow FCF 115. Allura Red AC 116. Carmoisine 117. Ponceau 4R 118. Brilliant Blue FCF 119. Indigo Carmine	In-house method TE-CH-163 in connection with: - TIS 696-1987 - Analytica Chimica Acta, Vol. 583 (2007). P.103-110.by HPLC technique
10.	- Starch - Sugar	120. Sulfur dioxide	In-house method TE-CH-018 based on AOAC (2023) 990.28
11.	Sugar	121. Moisture	In-house method TE-CH-327 based on ICUMSA GS2/1/3/9-15 (2007)
12.	Aquatic animal tissue	122. Oxytetracycline	In-house method TE-CH-003 based on AOAC (2023) 995.09
		123. Oxolinic acid	In-house method TE-CH-004 based on Journal of Association of Official Analytical Chemists Vol.74, No.4, 1991

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No.	Type of Sample	Test	Method
13.	- Starch and starch product	124. Moisture	AOAC (2023) 925.10
	- Cereal and cereal product	125. Ash	AOAC (2023) 923.03
14.	Beverage*	126. Total sugar as invert sugar 127. Reducing sugar 128. Sucrose	Compendium of Methods for Food Analysis, 1 st Edition, 2003, Chapter 2.49
15.	Feeding stuff and raw material	129. Moisture	AOAC (2023) 930.15
		130. Ash	AOAC (2023) 942.05
		131. Nitrogen 132. Protein	AOAC (2023) 976.05
		133. Total carbohydrate	Compendium of Methods for Food Analysis, 1 st Edition, 2003, Chapter 2.5
		134. Energy	Compendium of Methods for Food Analysis, 1 st Edition, 2003, Chapter 2.10
		135. Crude fiber	AOAC (2023) 978.10
		136. Total fat	In-house method TE-CH-393 based on AOAC (2023) 954.02

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No.	Type of Sample	Test	Method
16.	- Poultry - Meat	137. Lead (Pb)	In-house method TE-CH-035 by ICP-MS Technique
		138. Cadmium (Cd)	In-house method TE-CH-035 by ICP-MS Technique
		139. Copper (Cu)	In-house method TE-CH-033 by ICP-OES Technique
17.	Starch	140. Arsenic (As)	In-house method TE-CH-273 by ICP-MS Technique
		141. Lead (Pb)	
		142. Iron (Fe)	In-house method TE-CH-262 by ICP-OES Technique
18.	Sugar	143. Arsenic (As) 144. Copper (Cu) 145. Lead (Pb)	In-house method TE-CH-326 based on International Commission for Uniform method of Sugar Analysis, ICUMSA GS 2/3-23, GS2/3-24 (2005), UK
		146. Iron (Fe)	In-house method TE-CH-325 based on International Commission for Uniform method of Sugar Analysis, ICUMSA GS 2/3-23, GS2/3-24 (2005), UK

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No.	Type of Sample	Test	Method
19.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water Ice 	147. Anionic Surfactants as MBAS <ul style="list-style-type: none"> - 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
20.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory Ice Waste water 	148. Phenol 149. Aluminum (Al) 150. Iron (Fe) 151. Zinc (Zn)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 5530 C In-house method TE-CH-126 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 3030 E and Part 3120 B

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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process 	152. Arsenic (As)	In-house method TE-CH-381 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 3030 E and Part 3125 B
		153. Cadmium (Cd)	
		154. Lead (Pb)	
	<ul style="list-style-type: none"> Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory Ice Waste water 	155. Mercury (Hg)	In-house method TE-CH-126 and TE-CH-381 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 3030 E, Part 3120 B and Part 3125 B
		156. Molybdenum (Mo)	
		157. Selenium (Se)	
		158. Silver (Ag)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-NH ₃ C
		159. Barium (Ba)	
		160. Chromium (Cr)	
		161. Copper (Cu)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-N _{org} B
		162. Manganese (Mn)	
		163. Nickel (Ni)	
21.	<ul style="list-style-type: none"> Non-Potable water <ul style="list-style-type: none"> - Surface water Waste water 	165. Total kjeldahl nitrogen	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
22.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water Ice 	166. Calcium (Ca) 167. Magnesium (Mg) 168. Potassium (K) 169. Sodium (Na) 170. Phosphorus (P)	In-house method TE-CH-394 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 3030 E and Part 3120 B
23.	Chemical fertilizer	171. Total nitrogen 172. Total phosphate (as P ₂ O ₅) 173. Water soluble potassium (as K ₂ O)	In-house method TE-CH-211 based on AOAC (2023) 955.04 In-house method TE-CH-183 based on AOAC (2023) 958.01 In-house method TE-CH-182 based on AOAC (2023) 893.02

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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 - Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory Ice 	174. Total solids (TS)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2540 B
		175. Total hardness	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2340 C
		176. Chloride 177. Chloride as Cl ₂	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-Cl ⁻ , B
25.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water Ice 	178. Color	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2120 C
		179. Residual chlorine	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-Cl, C

Saovane Aromsook

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No.	Type of Sample	Test	Method
26.	<ul style="list-style-type: none"> Potable water <ul style="list-style-type: none"> Drinking water Drinking water in sealed container Tap water Water to be used in food production process Non-Potable water <ul style="list-style-type: none"> Surface water Ground water Water to be used in the factory Ice Waste water 	180. Total dissolved solids (TDS)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2540 C
		181. Total suspended solids (TSS)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2540 D
		182. Total cyanide (CN ⁻)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500 –CN ⁻ C, E
		183. Alkalinity	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2320 B
27.	<ul style="list-style-type: none"> Non-Potable water <ul style="list-style-type: none"> Surface water Waste water 	184. Oil and Grease	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 5520 D

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No.	Type of Sample	Test	Method
27.	<ul style="list-style-type: none"> Non-Potable water <ul style="list-style-type: none"> Surface water Waste water 	185. Sulfide	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-S ²⁻ F
		186. Biochemical oxygen demand (BOD)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 5210 B
		187. Chemical oxygen demand (COD)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 5220 C
		188. Formaldehyde	In – house method TE-CH-235 based on Manual of Wastewater Analysis. Environment Engineering Association Thailand, Edition 4 th , 2004. page 183-186
		189. Phosphorus (P) 190. Phosphate	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-P B, E

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No.	Type of Sample	Test	Method
27.	<ul style="list-style-type: none"> Non-Potable water <ul style="list-style-type: none"> Surface water Waste water 	191. Color (ADMI)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2120 F
		192. Chemical oxygen demand (COD)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 5220 B
		193. Residual chlorine	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500-Cl, C

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No.	Type of Sample	Test	Method
28.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process ● Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory ● Ice 	194. Turbidity	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 2130-B
29.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Drinking water - Drinking water in sealed container - Tap water - Water to be used in food production process ● Non-Potable water <ul style="list-style-type: none"> - Surface water - Ground water - Water to be used in the factory ● Ice ● Waste water 	195. pH	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 24 th Edition, 2023. Part 4500 – H ⁺
		196. Odour	TIS 257-2549

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Food* as described

1. Meat and Meat Products (Frozen, Chilled, Processed, Fresh)
2. Poultry and Poultry Products (Frozen, Chilled, Processed, Fresh)
3. Vegetable and Vegetable Products (Frozen, Chilled, Processed, Fresh)
4. Fruit and Fruit Products (Frozen, Chilled, Processed, Fresh)
5. Starch and Starch Products
6. Cereals and Cereal Products
7. Nut and Nut Products
8. Daily and Daily Products
9. Egg and Egg Products
10. Beans
11. Sauce
12. Seasoning
13. Beverage and Powder Beverage

Beverage* as described

1. Water that contains carbon dioxide or oxygen
2. Beverages that contain or are made from fruit, plants or vegetables, regardless of whether they contain carbon dioxide or oxygen
3. Beverages that contain or are made from non-fruit, plants, vegetable, or vegetables ingredients, regardless of whether they contain carbon dioxide or oxygen is mixed
4. Beverage as in (2) or (3) concentrated type, which must be diluted before consumption.
5. Dry beverage

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