



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

This is to certify that

The laboratory of

**Bureau of Quality and Safety of Food
Department of Medical Sciences**

**88/7 Moo 4 Tiwanon Road, Talat Khwan,
Mueang Nonthaburi, Nonthaburi 11000, 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, Herbal Product and Narcotic Testing


(Dr. Patavee Soisangwan)

Director of Bureau of Laboratory Quality Standards

Date of Accreditation : 25 March 2022

Valid Until : 24 March 2026

Accreditation Number 4043/50

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
1.	Acid canned food	1. Acidophilic or aciduric bacteria at 30°C (Detected or not detected) 2. Acidophilic or aciduric bacteria at 55°C (Detected or not detected) 3. Yeasts and Molds (Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 21A).
2.	Low-acid canned food	4. Microbial growth at 35°C (Detected or not detected) 5. Microbial growth at 55°C (Detected or not detected) 6. <i>Clostridium botulinum</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 21 A).
3.	Food ¹	7. Aerobic plate count (CFU)	Compendium of Methods for the Microbiological Examination of Foods. APHA, 5 th Edition. 2015 (Chapter 6 & 8). FDA BAM <i>Online</i> , 2001 (Chapter 3).
		8. <i>Staphylococcus aureus</i> (CFU, MPN and Detected or not detected)	FDA BAM <i>Online</i> , 2016 (Chapter 12).

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No.	Type of Sample	Test	Method
3.	Food ¹	9. <i>Listeria</i> spp. (Detected or not detected)	ISO 11290 -1: 2017.
		10. <i>Listeria monocytogenes</i> (Detected or not detected)	
		11. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/AMD 1:2020.
		12. <i>Shigella</i> spp. (Detected or not detected)	ISO 21567: 2004.
		13. <i>Vibrio cholerae</i> (Detected or not detected)	ISO 21872-1: 2017.
		14. <i>Vibrio parahaemolyticus</i> (Detected or not detected)	
		15. Lactic acid bacteria(CFU)	ISO 15214: 1998.
		16. Enterococci (CFU)	Compendium of Methods for the Microbiological Examination of Foods. APHA, 5 th Edition. 2015 (Chapter 10).
17. Enterobacteriaceae (CFU)	Compendium of Methods for the Microbiological Examination of Foods. APHA, 5 th Edition. 2015 (Chapter 9).		

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No.	Type of Sample	Test	Method
3.	Food ¹	18. <i>Escherichia coli</i> O157 (Detected or not detected)	ISO 16654:2001/AMD 1:2017.
		19. <i>Cronobacter</i> spp. (Detected or not detected)	ISO 22964:2017.
		20. <i>Clostridium perfringens</i> (CFU and Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 16).
		21. <i>Bacillus cereus</i> (CFU and Detected or not detected)	FDA BAM <i>Online</i> , 2020 (Chapter 14).
		22. Yeasts and Molds (CFU)	FDA BAM <i>Online</i> , 2001 (Chapter 18).
			AOAC (2019) 997.02.
		23. Coliforms CFU, MPN and Detected or not detected)	FDA BAM <i>Online</i> , 2020 (Chapter 4).
		24. Fecal coliforms (MPN)	
25. <i>Escherichia coli</i> (CFU, MPN and Detected or not detected)			
26. <i>Clostridium</i> spp. (Detected or not detected)	USP 43/ NF 38: 2020.		

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No.	Type of Sample	Test	Method
3.	Food ¹	27. <i>Clostridium botulinum</i> (Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 17).
		28. Aerobic plate count at 30°C (CFU)	ISO 4833-1: 2013.
4.	Milk and milk product	29. Thermophilic bacteria (CFU)	Standard Methods for the Examination of Dairy Products. APHA, 17 th Edition. 2004, (Chapter 8).

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No.	Type of Sample	Test	Method
5.	<ul style="list-style-type: none"> ● Food ³ ● Beverages ¹ consisting or produced from GMOs 	30. CaMV 35S – promoter	In-house method SOP No. 20 02 187 based on ISO 21569:2005/
		31. NOS – terminator	Amd.1:2013 (PCR)
		32. <i>npt</i> II	
		33. Wheat specific gene (waxy)	In-house method SOP No. 20 02 186 based on EURL-GMFF, 2013 (PCR)
		Soybean products	
		34. RRS	In-house method SOP No. 20 02 190 based on ISO 21569:2005/ Amd.1:2013 (PCR)
		Maize products:	
		35. Bt11 maize	In - house method SOP No. 20 02 191 based on ISO 21569:2005/ Amd.1:2013 (PCR)
		36. Bt176 maize	
		37. MON810 maize	
38. GA21 maize			
39. T25 maize			
40. Starlink maize	In - house method SOP No. 20 02 191 based on MHLW, Japan (PCR)		
41. MON 863 maize	In-house method SOP No. 20 02 191 based on EURL-GMFF, 2005 (PCR)		
42. NK 603 maize			
43. MIR 604 maize	In-house method SOP No. 20 02 191 based on EURL-GMFF, 2007 (PCR)		
44. DAS-59122-7 maize	In-house method SOP No. 20 02 191 based on EURL-GMFF, 2006 (PCR)		

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No.	Type of Sample	Test	Method
5.	<ul style="list-style-type: none"> ● Food ³ ● Beverages ¹ consisting or produced from GMOs 	Maize products	In-house method SOP No. 20 02 191 based on EURL-GMFF, 2011 (PCR)
		45. MIR162 maize	
		46. MON88017 maize	In-house method SOP No. 20 02 191 based on EURL-GMFF, 2008 (PCR)
		Soybean products	
		47. DP305423-1 soybean	In-house method SOP No. 20 02 190 based on EURL-GMFF, 2013 (PCR)
		48. MON89788 soybean	
		49. CaMV 35S – promoter	In-house method SOP No. 20 02 367 based on ISO 21570:2005/ Amd.1: 2013 (Real-time PCR)
		50. NOS – terminator	
		51. Bar	In-house method SOP No. 20 02 367 based on ISO 21570:2005/ Amd.1: 2013 (Real-time PCR)
52. pat			
53. CTP2-CP4-EPSPS	In-house method SOP No. 20 02 367 based on EURL-GMFF, 2009 (Real-time PCR)		
54. T25 maize	In-house method SOP No.20 02 291 based on EURL-GMFF, 2013 (Real-time PCR)		
55. TC 1507 maize	In-house method SOP No.20 02 291 based on EURL-GMFF, 2005 (Real-time PCR)		

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No.	Type of Sample	Test	Method
6.	Food with plant products	56. Eukaryotes specific gene (18S- rRNA)	In-house method SOP No. 20 02 186 based on Lebensm Unters Forsch. 1993 Mar:196(3), p. 248-251 (PCR)
		57. Plant specific gene (Chloroplast - tRNA)	In-house method SOP No. 20 02 186 based on ISO 21569:2005/ Amd.1:2013 (PCR)
		Soybean products 58. Soybean specific gene (Lectin) 59. Maize specific gene (Invertase)	In-house method SOP No. 20 02 186 based on ISO 21569:2005/ Amd.1:2013 (PCR)
		60. Maize specific gene (Zein)	In-house method SOP No. 20 02 186 based on MHLW, Japan (PCR)
		61. Papaya specific gene (papain)	In-house method SOP No.20 02 186 based on MHLW, Japan (PCR)
		62. Potato specific gene (UDP-glucose pyrophosphorylase, patatin)	In-house method SOP No.20 02 186 based on ISO 21569:2005/ Amd.1:2013 (PCR)
		63. Tomato specific gene (polygalacturonase)	

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No.	Type of Sample	Test	Method
6.	Food with plant products	64. Rice specific gene (rice actin)	In-house method SOP No. 20 02 186 based on MHLW, Japan (PCR)
		65. Maize specific gene (hmg)	In-house method SOP No. 20 02 362
		66. Soybean specific gene (Lectin)	based on ISO 21570:2005/ Amd.1:2013 (Real-time PCR)

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Date of Accreditation : 25 March 2022

Valid Until : 24 March 2026

Reviewed by Head of Laboratory Accreditation Section (Mr. Surasak Muenphon)

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No.	Type of Sample	Test	Method
7.	<ul style="list-style-type: none"> ● Food ¹ ● Food in sealed container 	67. Water activity (Aw)	AOAC (2019) 978.18 B.(a)
8.	Daily products <ul style="list-style-type: none"> ● Condensed milk ● Sweetened condensed milk ● Spray - dried whole or skim milk 	68. Filth	AOAC (2019) 960.49A.
9.	Alimentary pastes	69. Light filth	AOAC (2019) 969.41
10.	Rice flours	70. Light filth	AOAC (2019) 982.32 A.(a) B.(a)
11.	<ul style="list-style-type: none"> ● Tea ● Tea powder 	71. Light filth	AOAC (2019) 981.18
12.	Food in sealed containers	72. Net weight - Drained weight	AOAC (2019) 968.30

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No.	Type of Sample	Test	Method
13.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water - Water to be used in food ● Non-potable water <ul style="list-style-type: none"> - Process water - Natural water - Supply water - Water to be used in the factory - Ground water - Surface water - Swimming pool water ● Mineral water ● Ice 	73. Standard plate count (CFU)	<ul style="list-style-type: none"> - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23rd Edition. 2017. Part 9215 A-B - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23rd Edition. 2017. Part 9215 A, C
		74. Coliforms (MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 9221 A-C
		75. Fecal coliforms (MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 9221 A-C, E
		76. <i>Escherichia coli</i> (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 9221 A-B, E, G, 9225 C-D



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No.	Type of Sample	Test	Method
13.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water - Water to be used in food ● Non-potable water <ul style="list-style-type: none"> - Process water - Natural water - Supply water - Water to be used in the factory - Ground water - Surface water - Swimming pool water ● Mineral water ● Ice 	77. <i>Staphylococcus aureus</i> (CFU and Detected or not detected)	Standard Methods for the Examination of Water and Wastewater. APHA. AWWA, WEF, 23 rd Edition. 2017. Part 9213 B and FDA BAM <i>online</i> , 2016 (Chapter 12)
		78. <i>Salmonella</i> spp. (Detected or not detected)	ISO 19250:2010
		79. <i>Clostridium perfringens</i> (Detected or not detected)	Standing Committee of Analysts. EA, 2021. (Part 6)
		80. Enterococci (Detected or not detected) 81. Fecal enterococci (Detected or not detected) 82. Fecal streptococci (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 9230 C

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No.	Type of Sample	Test	Method
14.	<ul style="list-style-type: none"> ● Beverage² - Beverage in sealed containers - Beverage in non-sealed containers 	83. Yeasts and Molds (CFU)	FDA BAM Online, 2001 (Chapter 18)
		84. Aerobic plate count (CFU)	Compendium of Methods for the Microbiological Examination of Foods. APHA, 5 th Edition 2015. (Chapter 6 & 8)
		85. Coliforms(MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23rd Edition. 2017. Part 9221 A-C
		86. Fecal coliforms(MPN)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23rd Edition. 2017. Part 9221 A-C, E
		87. <i>Escherichia coli</i> (Detected or not detected)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23rd Edition. 2017. Part 9221 A-B, E, G, 9225 C-D
		88. <i>Staphylococcus aureus</i> (CFU and Detected or not detected)	FDA BAM Online, 2016 (Chapter 12)

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No.	Type of Sample	Test	Method
14.	<ul style="list-style-type: none"> ● Beverage² - Beverage in sealed containers - Beverage in non-sealed containers 	89. <i>Salmonella</i> spp. (Detected or not detected)	ISO 6579-1:2017/Amd.1:2020
		90. <i>Bacillus cereus</i> (CFU and Detected or not detected)	FDA BAM <i>Online</i> , 2020 (Chapter 14)
		91. <i>Listeria monocytogenes</i> (Detected or not detected)	ISO 11290-1:2017
		92. <i>Clostridium perfringens</i> (CFU and Detected or not detected)	FDA BAM <i>Online</i> , 2001 (Chapter 16)

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No.	Type of Sample	Test	Method
15.	<ul style="list-style-type: none"> ● Food⁵ ● Container and Packaging ● Potable water¹ ● Ice ● Food contact surface 	93. SARS-CoV-2	In-house method SOP No. 20 02 404 and SOP No. 20 02 405 based on ISO 15216-2:2019

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No.	Type of Sample	Test	Method
16.	<ul style="list-style-type: none"> ● Cereals and cereal products ● Bakery wares ● Ready-to-eat savourties 	94. Acrylamide	In-house method SOP No. 20 02 252 based on Journal chromatography A. Vol. 1120, 2006.
17.	<ul style="list-style-type: none"> ● Meat and meat products ● Aquatic animal and Aquatic animal products ● Fruits ● Vegetables ● Seaweed ● Nuts ● Seeds ● Cereals and cereal products 	95. Borax	Compendium of Methods for Food Analysis. DMSc and ACFS, Thailand. 1 st Edition, 2003.
18.	<ul style="list-style-type: none"> ● Peanut ● Nut and nut products ● Spices ● Cereal and cereal products 	96. Aflatoxins (B1, B2, G1, G2 และ Total)	In-house method SOP No. 20 02 051 based on AOAC (2019) 991.31
19.	<ul style="list-style-type: none"> ● Milk and milk products ● Chocolate and chocolate products ● Bakery wares 	97. Melamine	In-house method SOP No. 20 02 247 by LC-MS/MS Technique

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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● . Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Dioxins (PCDDs/PCDFs) and sum of its toxic equivalence quantity:</p> <p>99. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>100. 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)</p> <p>101. 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)</p> <p>102. 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)</p> <p>103. 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)</p> <p>104. 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)</p> <p>105. Octachlorodibenzo-p-dioxin (OCDD)</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C



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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Dioxins (PCDDs/PCDFs) and sum of its toxic equivalence quantity:</p> <p>106. 2,3,7,8-Tetrachlorodibenzo furan (2,3,7,8-TCDF)</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>107. 1,2,3,7,9-Pentachlorodibenzo furan (1,2,3,7,9-PeCDF)</p> <p>108. 1,3,4,7,8-Pentachlorodibenzo furan (1,3,4,7,8-PeCDF)</p> <p>109. 1,2,3,4,7,8-Hexachlorodibenzo furan (1,2,3,4,7,8-HxCDF)</p> <p>110. 1,2,3,6,7,8-Hexachlorodibenzo furan (1,2,3,6,7,8-HxCDF)</p> <p>111. 1,2,3,7,8,9-Hexachlorodibenzo furan (1,2,3,7,8,9-HxCDF)</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C



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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Dioxins (PCDDs/PCDFs) and sum of its toxic equivalence quantity:</p> <p>112. 2,3,4,6,7,8-Hexachlorodibenzo furan (2,3,4,6,7,8-HxCDF)</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>113. 1,2,3,4,6,7,8-Heptachlorodibenzo furan (1,2,3,4,6,7,8-HpCDF)</p> <p>114. 1,2,3,4,7,8,9-Heptachlorodibenzo furan (1,2,3,4,7,8,9-HpCDF)</p> <p>115. Octachlorodibenzo furan (OCDF)</p> <p>116. Sum of dioxins (WHO-PCDD/F-TEQ), Lower-bound</p> <p>117. Sum of dioxins (WHO-PCDD/F-TEQ), Medium-bound</p> <p>118. Sum of dioxins (WHO-PCDD/F-TEQ), Upper-bound</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C

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20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Dioxin-like Polychlorinated biphenyls (DL-PCBs) and sums of its equivalence quantity:</p> <p>119. 3,3',4,4' Tetrachlorobiphenyl (PCB 77)</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>120. 3,4,4',5-Tetrachlorobiphenyl (PCB 81)</p> <p>121. 3,3',4,4',5 Pentachlorobiphenyl (PCB 126)</p> <p>122. 3,3',4,4',5,5'- Hexachlorobiphenyl (PCB 169)</p> <p>123. 2,3,3',4,4'- Pentachlorobiphenyl (PCB 105)</p> <p>124. 2,3,4,4',5- Pentachlorobiphenyl (PCB 114)</p> <p>125. 2,3',4,4',5- Pentachlorobiphenyl (PCB 118)</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C

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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Dioxin-like Polychlorinated biphenyls (DL-PCBs) and sums of its equivalence quantity:</p> <p>126. 2',3,4,4',5-Pentachlorobiphenyl (PCB 123)</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>127. 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 156)</p> <p>128. 2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)</p> <p>129. 2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)</p> <p>130. 2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)</p> <p>131. Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ), Lower-bound</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C



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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Dioxin-like Polychlorinated biphenyls (DL-PCBs) and sums of its equivalence quantity:</p> <p>132. Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ), Medium-bound</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>133. Sum of dioxins and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ), Upper-bound</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C



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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Non-dioxin-like Polychlorinated biphenyls (NDL-PCBs) and sums of its concentration:</p> <p>134. 2,4,4'-Trichlorobiphenyl (PCB 28)</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>135. 2,2',5,5'-Tetrachlorobiphenyl (PCB 52)</p> <p>136. 2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)</p> <p>137. 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)</p> <p>138. 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)</p> <p>139. 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)</p> <p>140. Sum of non dioxin-like PCBs, Lower-bound</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C



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No.	Type of Sample	Test	Method
20.	<ul style="list-style-type: none"> ● Aquatic animals and Aquatic animals products ● Milk and milk products. ● Animal tissue and animal tissue products.¹ 	<p>Non-dioxin-like Polychlorinated biphenyls (NDL-PCBs) and sums of its concentration:</p> <p>141. Sum of non dioxin-like PCBs, Medium-bound</p>	In-house method SOP No. 20 02 218 based on EPA method 1613B and 1668 C
21.	<ul style="list-style-type: none"> ● Potable water <ul style="list-style-type: none"> - Process water - Drinking water in sealed container - Drinking water in non-sealed container - Filtered water ● Non-potable water <ul style="list-style-type: none"> - Water to be used in food - Supply water - Natural water - Ground water - Surface water 	<p>142. Sum of non dioxin-like PCBs, Upper-bound</p>	In-house method SOP No. 20 02 340 based on EPA method 1613B and 1668 C



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No.	Type of Sample	Test	Method
22.	Seasoning sauce	143. 3-MCPD	AOAC (2019) 2000.01
23.	<ul style="list-style-type: none"> ● Cow's Milk ● Sterilized milk ● Pasteurized milk 	144. Alfatoxin M1	AOAC (2019) 2000.08
24.	Diary product	145. Alfatoxin M1	In house method SOP No. 20 02 298 based on AOAC (2019) 2000.08
25.	Animal tissue and animal tissue product	146. Benzo (a) pyrene	In house method SOP No. 20 02 143 based on Bull Dept Med Sci 2009; 51 (3-4):177-186
26.	Edible oil	147. Benzo (a) pyrene	In house method SOP No. 20 02 143 based on Bull Dept Med Sci 2015; 57 Supply 3: 263-274
27.	<ul style="list-style-type: none"> ● Dried plants ¹ ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) 	148. Aflatoxins (B1, B2, G1, G2 and Total)	In-house method SOP No. 20 02 051 based on AOAC (2019) 991.31

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No.	Type of Sample	Test	Method
28.	<ul style="list-style-type: none"> ● Coffee ● Tea ● Cereal and cereal product ● Enzyme⁴ ● Dried plants¹ ● Herbal ● Cannabis and hemp plants² (fresh and dried, include inflorescences) ● Cannabis and hemp plants³ (fresh and dried, except inflorescences) 	149. Ochratoxin A	In-house method SOP No. 20 02 370 based on AOAC (2019) 2004.10
29.	<ul style="list-style-type: none"> ● Milk and milk products ● Chocolate and chocolate products ● Bakery wares 	150. Cyanuric acid	In-house method SOP No. 20 02 247 by LC-MS/MS Technique

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No.	Type of Sample	Test	Method
30.	Food ¹	151. Cholesterol	AOAC (2019) 994.10
		152. Saturated fat	AOAC (2019) 996.06
31.	Edible oil and Fat	153. Fatty acid composition	AOCS (2001) Ce 1e-91
		154. Peroxide value	AOAC (2019) 965.33
		155. Acid value	AOCS (2017) Cd 3d-63
		156. Polar compounds	AOCS (2017) Cd 20-91
32.	Cow's Milk <ul style="list-style-type: none"> ● Raw milk ● UHT Milk ● Pasteurized Milk ● Sterilized Milk 	157. Total solids	ISO 6731/IDF21:2010
		158. Total nitrogen	AOAC (2019) 991.20
		159. Protein	
		160. Fat	ISO1211/IDF1:2010
		161. Energy from Fat	
		162. Ash	AOAC (2019) 945.46
		163. Total carbohydrate	Methods of analysis for nutrition labeling, 1993. p.8
		164. Milk solids not fat	AOAC (2019) 990.21
		165. Total energy	Methods of analysis for nutrition labeling, 1993. p.5
		166. Lactose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
167. Vitamin B 2	In-house method SOP No. 20 02 043 based on AOAC (2019) 970.65		



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No.	Type of Sample	Test	Method
33.	Cow's Milk <ul style="list-style-type: none"> ● Milk powder 	168. Moisture	AOAC (2019) 927.05
		169. Total nitrogen	In-house method SOP No. 20 02
		170. Protein	360 based on AOAC (2019) 991.20
		171. Fat	ISO1736 / IDF9:2008
		172. Energy from Fat	
		173. Ash	AOAC (2019) 930.30
		174. Total carbohydrate	Methods of analysis for nutrition labeling, 1993. p.8
		175. Total energy	Methods of analysis for nutrition labeling, 1993. p.5
		176. Protein in milk solids not fat	- AOAC (2019) 927.05 - ISO1736/IDF9:2008 - In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20. Calculation from moisture content, fat content and protein content.
		177. Lactose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
178. Vitamin B 2	In-house method SOP No. 20 02 043 based on AOAC (2019) 970.65		

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No.	Type of Sample	Test	Method
34.	Cow's Milk ● Sweetened condensed milk	179. Moisture	ISO 6734/IDF15:2010
		180. Total solids	
		181. Total nitrogen	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		182. Protein	
		183. Fat	ISO1737/IDF13:2008
		184. Energy from Fat	
		185. Ash	AOAC (2019) 920.115 (E)
186. Total carbohydrate	Methods of analysis for nutrition labeling, 1993. p.8		
		187. Total energy	Methods of analysis for nutrition labeling, 1993. p. 5
		188. Sucrose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
		189. Lactose	
35.	Modified milk for infant and modified milk of uniform follow up formula for infant and children.	190. Vitamin B 2	In-house method SOP No. 20 02 043 based on AOAC (2019) 970.65
36.	Fermented milk (UHT milk, Pasteurized milk and Sterilized milk)	191. Total nitrogen	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		192. Protein	
		193. Fat	In-house method SOP No. 20 02 361 based on ISO1211/IDF1:2010
		194. Energy from Fat	



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No.	Type of Sample	Test	Method
37.	Fermented milk (Powder)	195. Moisture	In-house method SOP No. 20 02 048 based on AOAC (2019) 927.05
		196. Total nitrogen	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		197. Protein	
		198. Fat	In-house method SOP No. 20 02 361 based on ISO1736/IDF9:2008
199. Energy from Fat			
38.	<ul style="list-style-type: none"> ● Flavored milk (UHT milk, pasteurized milk and sterilized milk) ● Milk product (UHT milk, pasteurized milk and sterilized milk) 	200. Total nitrogen	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		201. Protein	
		202. Fat	In-house method SOP No. 20 02 361 based on ISO1211/IDF1:2010
		203. Energy from Fat	
		204. Total solids	In-house method SOP No. 20 02 048 based on ISO 6731/IDF21:2010
		205. Milk solid not fat	
		206. Ash	Gravimetry, muffle furnace 550 ^o c
		207. Total carbohydrate	Methods of analysis for nutrition labeling, 1993. p.8
208. Total energy	Methods of analysis for nutrition labeling, 1993. p. 5		

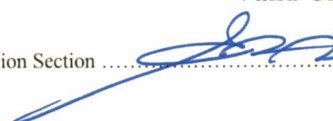


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No.	Type of Sample	Test	Method
38.	<ul style="list-style-type: none"> ● Flavored milk (UHT milk, pasteurized milk and sterilized milk) ● Milk product (UHT milk, pasteurized milk and sterilized milk) 	209. Sucrose 210. Lactose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
39.	<ul style="list-style-type: none"> ● Flavored milk (Powder) ● Milk product (Powder) 	211. Moisture	In-house method SOP No. 20 02 048 based on AOAC (2019) 927.05
		212. Total nitrogen	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		213. Protein	In-house method SOP No. 20 02 361 based on ISO1736/IDF9:2008
		214. Fat	In-house method SOP No. 20 02 361 based on ISO1736/IDF9:2008
		215. Energy from Fat	In-house method SOP No. 20 02 361 based on ISO1736/IDF9:2008
		216. Ash	Gravimetry, muffle furnace 550° c
		217. Total carbohydrate	Methods of analysis for nutrition labeling, 1993. p.8
39.	<ul style="list-style-type: none"> ● Flavored milk (Powder) ● Milk product (Powder) 	218. Total energy	Methods of analysis for nutrition labeling, 1993. p. 5
		219. Sucrose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
		220. Lactose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
40.	Butter	221. Moisture	ISO3727-1/IDF80-1:2001

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No.	Type of Sample	Test	Method
41.	Cheese	222. Moisture	ISO 5534:2004/IDF4:2004
		223. Fat	ISO 1735:2004/IDF5:2004
		224. Energy from Fat	
		225. Fat in dry matter	ISO 5534:2004/IDF4:2004 and ISO 1735:2004/IDF5:2004
42.	Cereal and cereal products Grain <ul style="list-style-type: none"> ● Flour, Starch ● Soy bean milk ● Rice and Rice Product ● Bakery and Snack ● Fast food 	226. Total nitrogen	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		227. Protein	
		228. Fat	In-house method SOP No. 20 02 361 based on AOAC (2019) 922.06
		229. Energy from Fat	
43.	Ice cream	230. Total solids	AOAC (2019) 941.08
		231. Fat	AOAC (2019) 952.06
		232. Energy from Fat	
		233. Total nitrogen	AOAC (2019) 930.33
		234. Protein	
		235. Ash	Gravimetry, muffle furnace 550°c



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No.	Type of Sample	Test	Method
43.	Ice cream	236. Milk solid not fat	In-house method SOP No. 20 02 053 in connection with AOAC (2019) 977.20 and 991.20) and Gravimetry, muffle furnace 550 °C. Calculation from lactose content, protein content and ash content.
		237. Sucrose 238. Lactose	In-house method SOP No. 20 02 292 based on AOAC (2019) 977.20
44.	<ul style="list-style-type: none"> ● Fish sauce ● Soy bean sauce 	239. Total nitrogen 240. Protein	In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20
		241. Iodine (I)	In-house method based on Journal of Analytical Atomic Spectrometry, September 1998, (13):977-982
45.	Electrolyte Drink	242. Sodium (Na)	In-house method SOP No. 20 02 300 based on AOAC (2019) 2011.14
		243. Potassium (K)	In-house method SOP No. 20 02 300 based on AOAC (2019) 2011.14
46.	Honey	244. Moisture	AOAC (2019) 969.38 (B)



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No.	Type of Sample	Test	Method
47.	<ul style="list-style-type: none"> ● Animal fat ● Edible oil 	245. p, p'-DDE	Primary method: Isotope dilution mass spectrometry (IDMS)
48.	Vegetables and Fruits <ul style="list-style-type: none"> ● High water and chlorophyll content ● High water and low or no chlorophyll content 	Organophosphorus compounds: 246. chlorpyrifos 247. dichlorvos 248. diazinon 249. dicrotophos 250. dimethoate 251. EPN 252. ethion 253. methidathion 254. parathion 255. pirimiphos – methyl 256. parathion – methyl 257. profenofos 258. prothiofos 259. triazofos	In - house method SOP No. 20 02 273 based on AOAC (2019) 2007.01



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No.	Type of Sample	Test	Method
48.	Vegetables and Fruits <ul style="list-style-type: none"> ● High water and chlorophyll content ● High water and low or no chlorophyll content 	Synthetic pyrethroids: 260. bifenthrin 261. cyfluthrin 262. lamda-cyhalothrin 263. cypermethrin 264. deltamethrin 265. fenpropathrin 266. fenvalerate 267. permethrin	In - house method SOP No. 20 02 273 based on AOAC (2019) 2007.01



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No.	Type of Sample	Test	Method
49.	Cow's Milk <ul style="list-style-type: none"> ● Raw Milk ● Pasteurized Milk ● Sterilized Milk ● UHT Milk 	Organochlorine compounds: <ul style="list-style-type: none"> 268. aldrin 269. α-BHC 270. γ-BHC (lindane) 271. α-chlordane 272. γ-chlordane 273. p, p' -DDE 274. p, p' -TDE 275. p, p' -DDT 276. dieldrin 277. endrin 278. α-endosulfan 279. β-endosulfan 280. heptachlor 281. trans-heptachlor epoxide 282. hexachlorobenzene 	Bull Dept Med Sci 2008; 50 (3): 185-196



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No.	Type of Sample	Test	Method
50.	<ul style="list-style-type: none"> ● Rice ● Cereal 	283. Bromide ion	In-house method SOP No. 20 02 303 based on EURL-SRM-M6
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues:	
		284. aldicarb 285. carbaryl 286. carbofuran 287. 3-OH carbofuran 288. methiocarb 289. methomyl 290. oxamyl	AOAC (2019) 985.23 In - house method SOP No. 20 02 271 based on Bull Dept Med Sci 2005; 47 (1): 26-36
		Fungicides:	
		291. carbendazim 292. thiabendazole	Bull Dept Med Sci 2005; 47(1): 26-36

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 293. 4,4'-DDD 294. 4,4'-DDE 295. 4,4'-DDT 296. alachlor 297. adrin 298. BHC-alpha (alpha-HCH) 299. BHC-beta (beta-HCH) 300. BHC-delta (delta-HCH) 301. BHC-gamma (gamma-HCH) 302. Bifenthrin 303. bromophos-ethyl 304. butachlor 305. cadusafos 306. chlordane-cis 307. chlordane-oxy 308. chlordane-trans 309. chlorfenapyr 310. chlorfenvinphos 311. chlorobenzilate 312. chloroneb 313. chlorothalonil	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS



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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 314. chlorpropham 315. chlorpyrifos 316. chlorpyrifos-methyl 317. cyanophos 318. cyfluthrin 319. cypermethrin 320. DCPA (Dacthal) 321. deltamethrin 322. demeton-S-methyl 323. diazinon 324. dichlorvos 325. dieldrin 326. disulfoton 327. ditalimfos 328. endosulfan sulfate 329. endosulfan-alpha 330. endosulfan-beta 331. endrin 332. EPN 333. ethion 334. fenchlorphos	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 335. fenitrothion 336. fenpropathrin 337. fenthion 338. fenvalerate 339. fipronil 340. heptachlor 341. heptachlor epoxide-cis 342. heptachlor epoxide-trans 343. heptenophos 344. isofenphos 345. lambda-cyhalothrin 346. malathion 347. methacrifos 348. methamidophos 349. methidathion 350. methoxychlor 351. metribuzin 352. mevinphos 353. parathion 354. parathion-methyl 355. permethrin	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 356. phosalone 357. phosphamidon 358. pirimiphos-ethyl 359. pirimiphos-methyl 360. profenofos 361. propachlor 362. propargite 363. propetamphos 364. prothiofos 365. quinalphos 366. quintozene 367. tecnazen 368. terbacil 369. terbufos 370. tetradifon 371. thiometon 372. tolylfluanid 373. triadimefon 374. trifluralin	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 375. abamectin 376. acetamiprid 377. acibenzolar-S-methyl 378. aldicarb 379. aldicarb-sulfone 380. aldicarb-sulfoxide 381. ametoctradin 382. aminocarb 383. anilazine 384. atrazine 385. azamethiphos 386. azoxystrobin 387. bendiocarb 388. boscalid 389. bromacil 390. bupirimate 391. carbaryl 392. carbendazim 393. carbetamide 394. carbofuran 395. carbofuran-3-hydroxy	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS



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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 396. carbofuran-3-keto 397. carboxin 398. chlorbromuron 399. chloridazon 400. chlorotoluron 401. chloroxuron 402. clothianidin 403. cyanazine 404. cycluron 405. cyflumetofen 406. cyproconazole 407. demeton-s-methyl sulfone 408. demeton-s-methyl sulfoxide 409. diethofencarb 410. dimefox 411. dimethachlor 412. dimethomorph 413. diphenamid 414. diuron 415. ethiofencarb 416. ethiofencarb-sulfone	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS



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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 417. ethiofencarb-sulfoxide 418. ethirimol 419. ethofumesate 420. etofenprox 421. etoxazole 422. famoxadone 423. fenamidone 424. fenamiphos 425. fenarimol 426. fenbuconazole 427. fenhexamid 428. fenobucarb 429. fenothiocarb 430. fenoxycarb 431. fenpropidin 432. fensulfothion 433. fenthion-sulfoxide 434. flufenacet 435. flufenoxuron 436. fluometuron 437. fluopyram	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS



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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 438. fluquinconazole 439. fluridone 440. flurtamone 441. flusilazole 442. hexazinone 443. hexythiazox 444. imazalil 445. imidacloprid 446. indoxacarb 447. iprovalicarb 448. isoprocarb 449. isoproturon 450. linuron 451. malaaxon 452. mepanipyrim 453. metaflumizone 454. metalaxyl 455. methiocarb 456. methomyl 457. methoxyfenozide 458. metobromuron	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 459. metolachlor 460. metrafenone 461. monocrotophos 462. monolinuron 463. novaluron 464. omethoate 465. oxamyl 466. penconazole 467. phenthoate 468. pirimicarb 469. promecarb 470. prometon 471. prometryn 472. propiconazole 473. propoxur 474. propyzamide 475. prosulfucarb 476. prothoate 477. pyraclostrobin 478. pyridaben 479. pyrifenox	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues: 480. pyrimethanil 481. rotenone 482. sedaxane 483. simazine 484. spinetoram 485. spinozad 486. spiroxamine 487. tebuconazole 488. tebufenozide 489. tebufenpyrad 490. terbumeton 491. terbuthylazine 492. tetraconazole 493. thiabendazole 494. thiacloprid 495. thiamethoxam 496. thiobencarb 497. thiodicarb 498. thiofanox 499. thiofanox-sulfone 500. thiofanox-sulfoxide	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by GC-MS/MS

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No.	Type of Sample	Test	Method
51.	Vegetables and Fruits (Fresh, Chilled, Frozen)	Pesticide residues:	In-house method SOP No. 20 02 363 based on BS EN 15662: 2018 by LC-MS/MS
		501. triadimenol 502. tri-allate 503. tricyclazole 504. trifloxystrobin 505. triflumizole 506. triticonazole 507. vamidothion	
		508. paraquat cation 509. diquat dication 510. chlomequat cation 511. mepiquat cation	EURL-SRM (QuPPE-PO-Method); Version 10.1 (2019)

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
52.	<ul style="list-style-type: none"> ● Dried plants ¹ ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) ● Herbal formulas, Thai traditional formulas with cannabis as an ingredient 	Pesticide residues: 512. 4,4'-TDE (p,p'-TDE) 513. 4,4'-DDE (p,p'-DDE) 514. 4,4'-DDT (p,p'-DDT) 515. alachlor 516. aldrin 517. BHC-alpha (alpha-HCH) 518. BHC-beta (beta-HCH) 519. BHC-delta (delta-HCH) 520. BHC-gamma (gamma-HCH) 521. bifenthrin 522. bromophos-ethyl 523. butachlor 524. cadusafos 525. chlordane-cis 526. chlordane-oxy 527. chlordane-trans 528. chlorfenapyr 529. chlorfenvinphos 530. chlorobenzilate 531. chloroneb	In-house method SOP No. 20 02 369 based on BS EN 15662: 2018

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
52.	<ul style="list-style-type: none"> ● Dried plants ¹ ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) ● Herbal formulas, Thai traditional formulas with cannabis as an ingredient 	Pesticide residues: 532. chlorothalonil 533. chlorpropham 534. chlorpyrifos 535. chlorpyrifos-methyl 536. cyanophos 537. cyfluthrin 538. cypermethrin 539. DCPA (Decthal) 540. deltamethrin 541. demeton-S-methyl 542. diazinon 543. dichlorvos 544. dieldrin 545. disulfoton 546. ditalimfos 547. endosulfan sulfate 548. endosulfan-alpha 549. endosulfan-beta 550. endrin 551. EPN 552. ethion	In-house method SOP No. 20 02 369 based on BS EN 15662: 2018



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
52.	<ul style="list-style-type: none"> ● Dried plants ¹ ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) ● Herbal formulas, Thai traditional formulas with cannabis as an ingredient 	Pesticide residues: 553. fenchlorphos 554. fenitrothion 555. fenpropathrin 556. fenthion 557. fenvalerate 558. fipronil 559. heptachlor 560. heptachlor epoxide-cis 561. heptachlor epoxide-trans 562. heptenophos 563. isofenphos 564. lambda- cyhalothrin 565. malathion 566. methacrifos 567. methamidophos 568. methidathion 569. methoxychlor 570. metribuzin 571. mevinphos 572. parathion 573. parathion-methyl	In-house method SOP No. 20 02 369 based on BS EN 15662: 2018

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
52.	<ul style="list-style-type: none"> ● Dried plants ¹ ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) ● Herbal formulas, Thai traditional formulas with cannabis as an ingredient 	Pesticide residues: 574. permethrin 575. phosalone 576. phosphamidon 577. pirimiphos-ethyl 578. pirimiphos-methyl 579. profenofos 580. propachlor 581. propargite 582. propetamphos 583. prothiofos 584. quinalphos 585. quintozene 586. tecnazene 587. terbacil 588. terbufos 589. tetradifon 590. thiometon 591. tolylfluanid 592. triadimefon 593. trifluralin	In-house method SOP No. 20 02 369 based on BS EN 15662: 2018



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
53.	<ul style="list-style-type: none"> ● Edible oil (plant and animal) ● Edible fat (plant and animal) ● Edible herbal oils ● Cannabis oil ● Hemp oil ● Cannabis extract ● Hemp extract 	Pesticide residues: 594. p,p'-TDE (4,4'-TDE) 595. p,p'-DDE (4,4'-DDE) 596. p,p'-DDT (4,4'-DDT) 597. alachlor 598. aldrin 599. BHC-alpha (alpha-HCH) 600. BHC-beta (beta-HCH) 601. BHC-delta (delta-HCH) 602. BHC-gamma (gamma HCH) 603. bifenthrin 604. bromophos-ethyl 605. butachlor 606. cadusafos 607. chlordane-cis 608. chlordane-oxy 609. chlordane-trans 610. chlorfenapyr 611. chlorfenvinphos 612. chlorobenzilate 613. chloroneb	In-house method SOP No. 20 02 369 based on EURL-FV (2012-M6)

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
53.	<ul style="list-style-type: none"> ● Edible oil (plant and animal) ● Edible fat (plant and animal) ● Edible herbal oils ● Cannabis oil ● Hemp oil ● Cannabis extract ● Hemp extract 	<p>Pesticide residues:</p> <p>614. chlorothalonil</p> <p>615. chlorpropham</p> <p>616. chlorpyrifos</p> <p>617. chlorpyrifos-methyl</p> <p>618. cyanophos</p> <p>619. cyfluthrin</p> <p>620. cypermethrin</p> <p>621. DCPA (Decthal)</p> <p>622. deltamethrin</p> <p>623. demeton-S-methyl</p> <p>624. diazinon</p> <p>625. dichlorvos</p> <p>626. dieldrin</p> <p>627. disulfoton</p> <p>628. ditalimfos</p> <p>629. endosulfan sulfate</p> <p>630. endosulfan-alpha</p> <p>631. endosulfan-beta</p> <p>632. endrin</p> <p>633. EPN</p> <p>634. Ethion</p>	<p>In-house method SOP No. 20 02 369 based on EURL-FV (2012-M6)</p>

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
53.	<ul style="list-style-type: none"> ● Edible oil (plant and animal) ● Edible fat (plant and animal) ● Edible herbal oils ● Cannabis oil ● Hemp oil ● Cannabis extract ● Hemp extract 	<p>Pesticide residues:</p> <p>635. fenclorphos</p> <p>636. fenitrothion</p> <p>637. fenpropathrin</p> <p>638. fenthion</p> <p>639. fenvalerate</p> <p>640. fipronil</p> <p>641. heptachlor</p> <p>642. heptachlor epoxide-cis</p> <p>643. heptachlor epoxide-trans</p> <p>644. heptenophos</p> <p>645. isofenphos</p> <p>646. lambda- cyhalothrin</p> <p>647. malathion</p> <p>648. methacrifos</p> <p>649. methamidophos</p> <p>650. methidathion</p> <p>651. methoxychlor</p> <p>652. metribuzin</p> <p>653. mevinphos</p> <p>654. parathion</p> <p>655. parathion-methyl</p>	<p>In-house method SOP No. 20 02 369 based on EURL-FV (2012-M6)</p>

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
53.	<ul style="list-style-type: none"> ● Edible oil (plant and animal) ● Edible fat (plant and animal) ● Edible herbal oils ● Cannabis oil ● Hemp oil ● Cannabis extract ● Hemp extract 	Pesticide residues: 656. permethrin 657. phosalone 658. phosphamidon 659. pirimiphos-ethyl 660. pirimiphos-methyl 661. profenofos 662. propachlor 663. propargite 664. propetamphos 665. prothiofos 666. quinalphos 667. quintozene 668. tecnazene 669. terbacil 670. terbufos 671. tetradifon 672. thiometon 673. tolylfluanid 674. triadimefon 675. trifluralin	In-house method SOP No. 20 02 369 based on EURL-FV (2012-M6)



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
54.	Vegetables and Fruits juices	Organophosphorus compounds:	In - house method SOP No. 20 02 273 based on AOAC 2019 (2007.01)
		676. chlorpyrifos 677. dichlorvos 678. diazinon 679. dicrotophos 680. dimethoate 681. EPN 682. ethion 683. methidathion 684. parathion 685. pirimiphos – methyl 686. parathion – methyl 687. profenofos 688. prothiofos 689. triazofos	
		Synthetic pyrethroids:	In - house method SOP No. 20 02 273 based on AOAC 2019 (2007.01)
		690. bifenthrin 691. cyfluthrin 692. lamda-cyhalothrin 693. cypermethrin 694. deltamethrin 695. fenpropathrin 696. fenvalerate 697. permethrin	



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No.	Type of Sample	Test	Method
55.	<ul style="list-style-type: none"> ● Cereal ● Pulses 	Pesticide residues 698. p,p'-TDE (4,4'-TDE) 699. p,p'-DDE (4,4'-DDE) 700. p,p'-DDT (4,4'-DDT) 701. alachlor 702. aldrin 703. BHC-alpha (alpha-HCH) 704. BHC-beta (beta-HCH) 705. BHC-delta (delta-HCH) 706. BHC-gamma (gamma HCH) 707. bifenthrin 708. bromophos-ethyl 709. butachlor 710. cadusafos 711. chlordane-cis 712. chlordane-oxy 713. chlordane-trans 714. chlorfenapyr 715. chlorfenvinphos 716. chlorobenzilate 717. chloroneb	In-house method SOP No. 20 02 363 based on BS EN 15662:2018 by GC-MS/MS



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No.	Type of Sample	Test	Method
55.	<ul style="list-style-type: none"> ● Cereal ● Pulses 	Pesticide residues 718. chlorothalonil 719. chlorpropham 720. chlorpyrifos 721. chlorpyrifos-methyl 722. cyanophos 723. cyfluthrin 724. cypermethrin 725. DCPA (Decthal) 726. deltamethrin 727. demeton-S-methyl 728. diazinon 729. dichlorvos 730. dieldrin 731. disulfoton 732. ditalimfos 733. endosulfan sulfate 734. endosulfan-alpha 735. endosulfan-beta 736. endrin 737. EPN 738. ethion	In-house method SOP No. 20 02 363 based on BS EN 15662:2018 by GC-MS/MS

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
55.	<ul style="list-style-type: none"> ● Cereal ● Pulses 	Pesticide residues 739. fenchlorphos 740. fenitrothion 741. fenpropathrin 742. fenthion 743. fenvalerate 744. fipronil 745. heptachlor 746. heptachlor epoxide-cis 747. heptachlor epoxide-trans 748. heptenophos 749. isofenphos 750. lambda- cyhalothrin 751. malathion 752. methacrifos 753. methamidophos 754. methidathion 755. methoxychlor 756. metribuzin 757. mevinphos 758. parathion 759. parathion-methyl	In-house method SOP No. 20 02 363 based on BS EN 15662:2018 by GC-MS/MS



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
55.	<ul style="list-style-type: none"> ● Cereal ● Pulses 	Pesticide residues 760. permethrin 761. phosalone 762. phosphamidon 763. pirimiphos-ethyl 764. pirimiphos-methyl 765. profenofos 766. propachlor 767. propargite 768. propetamphos 769. prothiofos 770. quinalphos 771. quintozene 772. tecnazene 773. terbacil 774. terbufos 775. tetradifon 776. thiometon 777. tolylfluanid 778. triadimefon 779. trifluralin	In-house method SOP No. 20 02 363 based on BS EN 15662:2018 by GC-MS/MS

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
56.	<ul style="list-style-type: none"> ● Animal tissue - Beef - Sheep - Pork - Poultry ● Liver 	780. Brombuterol 781. Clenbuterol 782. Ractopamine 783. Salbutamol	In - house method SOP No. 20 02 142 based on Journal Chromatography B 2004; 813: 34 – 45
57.	<ul style="list-style-type: none"> ● Animal tissue ² ● Cow's Milk ● Egg ● Honey 	784. Chloramphenicol	Euro Proxima B.V. 5091 CAP [21] 07.10
58.	<ul style="list-style-type: none"> - Animal tissue ² - Liver - Cow's Milk - Egg - Honey - Flour 	Nitrofurantol metabolites: 785. AOZ 786. AMOZ 787. AHD 788. SEM	In - house method SOP No. 20 02 198 based on Journal Chromatography B 1997; 691: 87 - 94
59.	<ul style="list-style-type: none"> ● Animal tissue - Beef - Sheep - Pork - Poultry 	789. β -agonist	In - house method SOP No. 20 02 174 based on Euro Proxima B.V. 5061 BAG1p [19] 09.05

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method		
60.	Animal tissue ²	Amphenicol:	In-house method SOP No. 20 02 343 based on J. Food and Drug Analysis, 2012; 20 (3): 674-680		
		790. chloramphenicol			
		791. florfenicol			
				792. thiamphenicol	
		Beta-lactam:	In-house method SOP No. 20 02 343 based on J. Food and Drug Analysis, 2012; 20 (3): 674-680		
		793. cloxacillin			
		794. dicloxacillin			
		795. oxacillin			
		796. cephalixin			
797. cefazolin					
		798. nafcillin			
Macrolide:	In-house method SOP No. 20 02 343 based on J. Food and Drug Analysis, 2012; 20 (3): 674-680				
799. erythromycin					
800. josamycin					
801. lincomycin					
		802. tilmicosin			

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
60.	Animal tissue ²	Quinolone: 803. danofloxacin 804. difloxacin 805. enrofloxacin 806. flumequine 807. marbofloxacin 808. nalidixic acid 809. norfloxacin 810. oxolinic acid 811. sarafloxacin 812. ofloxacin 813. levofloxacin	In-house method SOP No. 20 02 343 based on J. Food and Drug Analysis, 2012; 20 (3): 674-680



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
60.	Animal tissue ²	<p>Sulfonamides:</p> <p>814. sulfadiazine</p> <p>815. sulfadimidine</p> <p>816. sulfadoxine</p> <p>817. sulfadimethoxine</p> <p>818. sulfamerazine</p> <p>819. sulfamethizole</p> <p>820. sulfamethoxazole</p> <p>821. sulfamonomethoxine</p> <p>822. sulfaquinoxaline</p> <p>823. sulfisoxazole</p> <p>824. sulfathiazole</p> <p>825. sulfapyridine</p> <p>826. trimethoprim</p> <p>Tetracycline:</p> <p>827. chlortetracycline</p> <p>828. doxycycline</p> <p>829. oxytetracycline</p> <p>830. tetracycline</p>	In - house method SOP No. 20 02 343 based on J. Food and Drug Analysis, 2012:20 (3): 674 – 680

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No.	Type of Sample	Test	Method
61.	Cannabis and hemp plants ³ (fresh and dried, except inflorescences)	831. Cannabidiol, (CBD) 832. Delta - 9 – Tetrahydrocannabinol, (Delta -9 - THC)	In-house method SOP No. 20 02 390 based on Journal of Pharmaceutical and Biomedical Analysis 2017; 146; 15-23
62.	<ul style="list-style-type: none"> ● Ready-to-eat food (with and without cannabis or hemp as an ingredient) ● Beverages (with and without cannabis or hemp as an ingredient) 	833. Cannabidiol, (CBD) 834. Cannabinol, (CBN) 835. Delta - 8 - tetrahydrocannabinol (Delta -8-THC) 836. Delta - 9 - tetrahydrocannabinol (Delta -9 - THC) 837. Tetrahydrocannabinolic acid (THCA) 838. Tetrahydrocannabivarin (THCV)	In-house method SOP No. 20 02 399 based on Microgram Journal, 2017;14 (1-4) :9-32



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No.	Type of Sample	Test	Method
63.	<ul style="list-style-type: none"> ● Dietary supplement product: - Tablet - Capsule - Powder - Oil ⁵ - Liquid ● Instant coffee 	839. alprazolam 840. bisacodyl 841. desoxy-D ₂ PM 842. dexamethasone 843. diazepam 844. ephedrine 845. fenfluramine 846. fluoxetine 847. phentermine 848. prednisolone 849. pseudoephedrine 850. sildenafil 851. tadalafil 852. vardenafil 853. phenolphthalein 854. sibutramine	In-house method SOP No. 20 02 293 based on The Royal Society of Chemistry 2016; 8: 6840-46

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Date Revised 10 October 2022

Date of Accreditation : 25 March 2022

Valid Until : 24 March 2026

Reviewed by Head of Laboratory Accreditation Section (Mr. Surasak Muenphon)



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
64.	Food-contact articles made of plastics - Polyethylene - Polypropylene - Polystyrene - Polyvinylchloride - Polyethylene terephthalate - Polycarbonate - Nylon - Melamine	855. Heavy metal (as lead)	JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging. Japan.
		856. Quantity of potassium permanganate consumption	
		857. Evaporation residue (water)	
		858. Evaporation residue (4 % acetic acid)	
		859. Evaporation residue (20 % ethanol)	
		860. Evaporation residue (n-heptane)	In - house method SOP No. 20 02 070 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging. Japan.
		861. Identity of plastic type	In - house method SOP No. 20 02 077 based on FT-IR technique
		862. Lead (Pb) 863. Cadmium (Cd)	JETRO 2008. Standards and Testing Methods for Implements, Containers and Packaging.

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
64.	Food-contact articles made of plastics <ul style="list-style-type: none"> - Polyethylene - Polypropylene - Polystyrene - Polyvinylchloride - Polyethylene terephthalate - Polycarbonate - Nylon - Melamine 	864. Antimony (Sb)	In - house method SOP No. 20 02 073 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
65.	Food - contact articles made of melamine - formaldehyde resins	865. Phenol	In - house method SOP No. 20 02 258 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
		866. Formaldehyde	In - house method SOP No. 20 02 259 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
66.	Food-contact articles made of Polyvinylchloride	867. Tricresylphosphate	In - house method SOP No. 20 02 256 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
		868. Vinylchloride monomer	In - house method SOP No. 20 02 318 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
67.	Food-contact articles made of polystyrene and styrenecopolymer	Volatile substances : 869. Toluene 870. Ethylbenzene 871. Isopropylbenzene 872. n-propylbenzene 873. Styrene	In - house method SOP No. 20 02 255 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
68.	Food - contact article made of rubber used for infant and children.	874. Phenol	In - house method SOP No. 20 02 258 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
		875. Formaldehyde	In - house method SOP No. 20 02 259 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
		876. Zinc (Zn)	In - house method SOP No. 20 02 257 based on JETRO 2008 Standards and Testing Methods for Implements, Containers and Packaging.
		877. Lead (Pb) 878. Cadmium (Cd)	JETRO 2008. Standards and Testing Methods for Implements, Containers and Packaging.
69.	Edible bird's nest	879. Identity of edible bird's nest	In - house method SOP No. 20 02 183 based on FT-IR technique

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The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
70.	Feeding bottle and components made of plastics	Migration of 880. Lead (Pb) 881. Barium (Ba) 882. Cobalt (Co) 883. Copper (Cu) 884. Iron (Fe) 885. Lithium (Li) 886. Manganese (Mn) 887. Zinc (Zn)	In-house method SOP No. 20 02 329 in connection with - Commission Regulations (EU) No. 10/2011 - The European Standard BS EN 13130 – 1:2004
		888. Migration of Bisphenol A (2,2 – bis (4-hydroxyphenyl) propane)	- Commission Regulations (EU) No. 10/2011 - EURL-Food Contact Material ILC 2009/02 BPA in 50% ethanol: Annex 1



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No.	Type of Sample	Test	Method
71.	<ul style="list-style-type: none"> ● Potable water ² ● Non-potable water ¹ ● Mineral water ● Ice 	889. Arsenic (As)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. part 3120 B
		890. Cadmium (Cd)	
891. Chromium (Cr)			
892. Copper (Cu)			
893. Iron (Fe)			
894. Manganese (Mn)			
895. Nickel (Ni)			
896. Lead (Pb)			
897. Selenium (Se)			
898. Zinc (Zn)			
		899. Silver (Ag)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 3111 B
		900. Barium (Ba)	
		901. Aluminium (Al)	
		902. Antimony (Sb)	
		903. Iron (Fe)	
		904. Cadmium (Cd)	
		905. Manganese (Mn)	
		906. Nickel (Ni)	
		907. Copper (Cu)	
		908. Zinc (Zn)	
		909. Chromium (Cr)	
		910. Silver (Ag)	



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No.	Type of Sample	Test	Method
71.	<ul style="list-style-type: none"> ● Potable water ² ● Non-potable water ¹ ● Mineral water ● Ice 	911. pH	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. part 4500-H ⁺ B
		912. Total solids	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23 rd Edition. 2017. Part 2540 B
		913. Total hardness	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 2340 C
		914. Chloride (Cl) 915. Fluoride (F) 916. Nitrate (NO ₃) 917. Sulphate (SO ₄)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 4110 B



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

No.	Type of Sample	Test	Method
71.	<ul style="list-style-type: none"> ● Potable water ² ● Non-potable water ¹ ● Mineral water ● Ice 	918. Mercury (Hg)	In-house method SOP No. 20 02 317 based on Standard Methods for the Examination of Water and Wastewater. APHA 2012. part 3112B
		919. Lead (Pb)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. part 3113 B.
		920. Arsenic (As)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 3114 C
		921. Bromate (BrO ₃)	In-house method SOP No. 20 02 278 based on EPA 2009 (method 302.0)
		922. Selenium (Se)	In-house method based on SOP No. 20 02 394 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA, WEF, 23 rd Edition. 2017. Part 3120 B



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No.	Type of Sample	Test	Method
72.	<ul style="list-style-type: none"> ● Seaweed <ul style="list-style-type: none"> - Dried - Fresh (raw material) - Ready to eat ● Aquatic animal and Seafood ¹ 	923. Inorganic Arsenic	In-house method SOP 20 02 325 based on J. Food hyg. Soc.Jpn. 2007, Vol 49, No.2
73.	<ul style="list-style-type: none"> ● Food ¹ ● Beverage ² 	924. Lead (Pb)	AOAC (2019) 999.10
		925. Cadmium (Cd)	
		926. Mercury (Hg) (Total)	In-house method SOP No. 20 02 278 based on AOAC (2019) 997.15
		927. Lead (Pb) 928. Cadmium (Cd) 929. Arsenic (As) 930. Copper (Cu) 931. Iron (Fe) 932. Zinc (Zn) 933. Tin (Sn) 934. Nickel (Ni) 935. Manganese (Mn) 936. Chromium (Cr)	In-house method SOP No. 20 02 365 based on AOAC (2019) 999.10 and 999.08

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No.	Type of Sample	Test	Method
74.	<ul style="list-style-type: none"> ● Food ⁴ ● Food with and without cannabis or hemp as an ingredient ● Plants ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) ● Herbal formulas, Thai traditional formulas with cannabis as an ingredient ● Edible oil ● Edible herbal oils ● Cannabis oil ● Hemp oil ● Cannabis extract ● Hemp extract 	937. Total Mercury	USEPA 2007 method 7473:1-17



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No.	Type of Sample	Test	Method
75.	<ul style="list-style-type: none"> ● Plants ● Herbal ● Cannabis and hemp plants ² (fresh and dried, include inflorescences) ● Cannabis and hemp plants ³ (fresh and dried, except inflorescences) 	938. Lead (Pb) 939. Cadmium (Cd) 940. Total Arsenic	In-house method SOP No.20 02 365 based on AOAC (2019) 999.10 and 990.08
76.	<ul style="list-style-type: none"> ● Edible oil ● Edible herbal oils ● Cannabis oil ● Hemp oil ● Cannabis extract ● Hemp extract 	941. Lead (Pb) 942. Cadmium (Cd) 943. Total Arsenic 944. Copper (Cu) 945. Iron (Fe) 946. Chromium (Cr) 947. Nickel (Ni) 948. Zinc (Zn) 949. Manganese (Mn)	In-house method SOP No.20 02 365 based on AOAC (2019) 999.10 and 990.08

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No.	Type of Sample	Test	Method
77.	Beverage ¹	950. Caffeine	In-house method SOP No. 20 02 141 based on AOAC (2019) 980.14
		951. Citric acid	AOAC (2019) 986.13
78.	Cereal and cereal products	952. Propionic acid	In-house method SOP No. 20 02 153 based on Chromatographia Supplement. Vol. 66:2007
79.	<ul style="list-style-type: none"> ● Food ¹ ● Beverage ¹ 	953. Sodium cyclamate	EN 12857:1999
		954. Sulfur dioxide	In-house method SOP No. 20 02 124 based on Journal of Food Protection, Vol. 44 (5), 1981
		955. Saccharin 956. Acesulfame – K 957. Aspartame	EN 12856:1999
		958. Sucralose	In-house method SOP No. 20 02 314 based on Journal of Chromatography A 1157, 2007:187-196
		959. Benzoic acid 960. Sorbic acid	In-house method SOP No. 20 02 010 based on Lebensmittel – analytik , 1989

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No.	Type of Sample	Test	Method
79.	<ul style="list-style-type: none"> ● Food ¹ ● Beverage ¹ 	Organic synthetic colors: 961. Tartrazine 962. Sunset yellow FCF 963. Azorubine 964. Ponceau 4R 965. Brilliant blue FCF 966. Acid red 52 967. Patent blue V 968. Allura red	In-house method SOP No. 20 02 006 in connection with: - J. of chromatography. (1981), Vol.210. P 168-173. - FAO FOOD AND NUTRITION PAPER 14/7 (1986), P 76-79, 91-92.
		969. Erythrosine	In-house method SOP No. 20 02 006 in connection with: - J. of chromatography. (1981), Vol.210. P 168-173. - FAO FOOD AND NUTRITION PAPER 14/7 (1986), P 76-79, 91-92.
80.	Instant coffee	970. Moisture	AOAC (2019) 979.12
81.	Roasted coffee	971. Ash and water soluble ash	AOAC (2019) 900.02
		972. Moisture	AOAC (2019) 979.12
82.	Tea	973. Moisture	AOAC (2019) 925.19
		974. Ash	AOAC (2019) 920.100
		975. Hot water extract	AOAC (2019) 920.104
83.	Meat and meat product	976. Nitrite	EN 12014-4:2005
		977. Nitrate	

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No.	Type of Sample	Test	Method
84.	Edible salt	978. Iodine	Assessment of iodine deficiency disorders and monitoring their elimination; 3 rd Edition, WHO:2007
85.	Seasoning	979. L- glutamic acid	Journal of Food Protection. 46 (6), 1983.
86.	Food containg aloe vera	980. Aloin (barbaloin)	In-house method SOP No. 20 02 269 based on Journal AOAC, 68 (3):1985
87.	Edible oil and Fat	981. BHT (Butylated hydroxy toluene) 982. BHA (Butylated hydroxy anisole) 983. Propyl gallate 984. TBHQ (Tertiary butylhydroquinone)	In-house method SOP No. 20 02 132 based on AOAC (2019) 983.15
88.	Peanut Corn	985. Aflatoxin (Total, B1, B2, G1 & G2)	AOAC (2019) 991.31
89.	Fish sauce	986. L-glutamic acid/total nitrogen	Journal of Food Protection. 46 (6), 1983. and In-house method SOP No. 20 02 360 based on AOAC (2019) 991.20 (Calculation from glutamic acid and total nitrogen)

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Remark

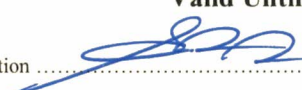
Dried plants¹ means Types of plants that can be used in herbal and food products, depending on the purpose of use.

Cannabis and hemp plants² means Type of Sample in narcotic group.
(fresh and dried, include inflorescences)

Cannabis and hemp plants³ means Type of Sample in food and herbal product group.
(fresh and dried, except inflorescences)

Enzyme⁴ means protein extracts from plant, animals or microorganism, used in food production process.

Oil⁵ means the dietary supplement product that is in the form of oil containing in a soft gel or other packages, such as coconut oil in a soft gel, capsicum extract in a capsule, and other extracts in the form of oil.



The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

Beverage¹ as described

1. Beverage, which is containing or made from fruits, plants or vegetables.
2. Beverage, which is containing or made from other constituents, except fruits, plants or vegetables.
3. Beverage as stipulated in (1) or (2), which is concentrated and needs to be diluted before consumption.
4. Beverage as stipulated in (1) or (2) in dried form.

Beverage² as described

1. Tea
2. Coffee
3. Soybean milk
4. Cocoa
5. Non alcoholic beverage
6. Electrolyte drink
7. Tea infusion
8. Water with dissolved carbon dioxide or oxygen gas.
9. Beverage, which is containing or made from fruits, plants or vegetables, and may also contain dissolved carbon dioxide or oxygen gas.
10. Beverage, which is containing or made from other constituents, except fruits, plants or vegetables, and may also contain dissolved carbon dioxide or oxygen gas.
11. Beverage as stipulated in (9) or (10), which is concentrated and needs to be diluted before consumption.
12. Beverage as stipulated in (9) or (10) in dried form.

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

Potable water ¹ as described

1. Drinking water in sealed containers
2. Tap water
3. Drinking water from automatic vending machine for drinking water
4. Water in food processing (process water)
5. Filtered water

Potable water ² as described

1. Process water
2. Drinking water in sealed container
3. Drinking water in non-sealed container
4. Filtered water

Non-potable water ¹ as described

1. Water to be used in food
2. Supply water
3. Natural water
4. Ground water
5. Surface water
6. Various types of water except wastewater.

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Accreditation Number 4043/50

Revised No. 01

Date of Accreditation : 25 March 2022

Date Revised 10 October 2022

Valid Until : 24 March 2026

Reviewed by Head of Laboratory Accreditation Section (Mr. Surasak Muenphon)

The Laboratory of Bureau of Quality and Safety of Food, Department of Medical Sciences has been accepted as an accreditation laboratory in the field food, herbal product and narcotic testing for the following scopes.

Food¹ as described

1. Meat and meat products (fresh, frozen, processed)
2. Poultry and poultry products (fresh, frozen, processed)
3. Fresh water animal and marine animal and their products (fresh, frozen, processed)
4. Vegetable, fruit and their products (fresh, frozen, processed)
5. Cereal and cereal products
6. Egg and egg products
7. Cow's milk and products such as milk, milk powder, condensed milk, sweetened condensed milk, cream, whey, flavored milk, fermented milk
8. Semi-processed food / instant food
9. Ready to eat / ready to cook food
10. Food in hermetically sealed container
11. Supplementary food for infants and young children
12. Food supplement
13. Food additives
14. Flavoring agent
15. Fish sauce
16. Food seasoning derived from the hydrolysis or fermentation of soybean protein
17. Sauce in sealed container
18. Fermented soybean
19. Spice and condiments
20. Food for weight control person
21. Ice cream
22. Honey, Royal jelly and royal jelly products
23. Chocolate

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Food ¹ as described

24. Jam, Jelly and Marmalade in sealed container
25. Imitated cream / non dairy creamer
26. Fermented food
27. Sugar
28. Flour or starch
29. Ready to eat meal (chill and frozen)
30. Bread and bakery products
31. Snacks
32. Ghee
33. Butter
34. Butter oil
35. Cheese
36. Infant food and Food of follow up formula for infants and young children
37. Modified milk and Modified milk of follow up formula for infants and young children
38. Alkaline-preserved egg
39. Some particular kinds of sauces
40. Chewing gum and candy
41. Vitamin fortified rice
42. Prepared gelatin dessert and jelly

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Food ² as described

1. Meat and meat products (fresh, frozen, processed)
2. Poultry and poultry products (fresh, frozen, processed)
3. Fresh water animal and marine animal and their products (fresh, frozen, processed)
4. Vegetable, fruit and their products (fresh, frozen, processed)
5. Cereal and cereal products
6. Dairy products
7. Sugar and sugar products
8. Spice and condiments
9. Food supplement products

Food ³ as described

1. Raw / fresh food
2. Semi-processed food / instant food
3. Ready to eat / ready to cook food
4. Cooked food
5. Frozen / chilled food
6. Dairy products
7. Supplementary food for infants and young children
8. Ice cream
9. Food additives
10. Food seasoning
11. Food supplement products
12. Sauce in sealed container
13. Food seasoning derived from the hydrolysis or fermentation of soybean protein

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Food ³ as described

14. Fermentation soybean
15. Imitated cream / non dairy creamer
16. Weight-control food
17. Chocolate
18. Food in hermetically sealed container

Food ⁴ as described

1. All kinds of meat including land animals, poultry, and aquatic animals (fresh, dried, and processed)
2. Vegetable and Fruit (fresh, dried, and processed)
3. Mushroom
4. Cereal and its products such as rice, wheat, barley, etc. (fresh, dried, and processed such as noodle, bread, cookies, candy, gummies, chocolate, etc.
5. Milk, eggs and its products
6. Fruit juice, beverages (ready to drink and powder), and ice creams
7. Ready to eat food and pre-cooked food

Food ⁵ as described

1. Meat (fresh, chilled, frozen)
2. Poultry (fresh, chilled, frozen)
3. Fresh-water animal and marine animal (fresh, cooked, chilled, frozen)
4. Vegetable, fruit (fresh, chilled, frozen)

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Animal tissue and animal tissue products ¹ as described

1. Beef
2. Sheep
3. Poultry
4. Pig
5. Liver of terrestrial animals
6. Fat of bovine animals, sheep, poultry and pigs
7. Mixed animal fats

Animal tissue ² as described

1. Beef
2. Pork
3. Sheep
4. Poultry
5. Aquatic animal

Aquatic animal and Seafood ¹ as described

1. shrimp, mollus, crab and fish (fresh and sea water)
2. Its products such as imitation crab, imitation shrimp

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