

Name of Laboratory : Asia Medical and Agricultural Laboratory and
Research Center Public Company Limited

Address : 361 Soi Ladprao 122, Ladprao Road,
Phlabphla, Wang Thonglang, Bangkok 10310

Accreditation Number : Testing - 0096

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Initial Issue Date : 18th September 2012

Issue Date : 29th November 2023

Expired date : 26th June 2026

Standard : ISO/IEC 17025:2017

Reference No. : 0303/19411

Scope of Laboratory Accreditation

Laboratory Name : Asia Medical and Agricultural Laboratory and Research Center Public Company Limited

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Wang Thonglang, Bangkok 10310

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Meat and meat products	<ul style="list-style-type: none"> - <i>Listeria monocytogenes</i> Detected or not detected - <i>Salmonella</i> spp. Detected or not detected - <i>Campylobacter coli</i> Detected or not detected - <i>Campylobacter jejuni</i> Detected or not detected - Yeasts and molds CFU/g 	<ul style="list-style-type: none"> AFNOR Validation Certificate No. 3M 01/15-09/16 AFNOR Validation Certificate No. 3M 01/16-11/16 AOAC Performance Tested Methods Certificate No. 111803 AOAC Performance Tested Methods Certificate No. 111803 AOAC Official Methods of Analysis, 22nd ed., 2023, method 2014.05

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2	Aquatic animals and products	- <i>Listeria monocytogenes</i> CFU/g	ISO 11290-2 : 2017
3	Foods - Prepared food - Bakery products - Aquatic animals and products - Salt, Spices, Soups, Sauces, Salads and Protein products	- <i>Vibrio parahaemolyticus</i> CFU/g	In - house method : TM-MI-064 based on FDA BAM Online, May 2004. Vibrio (Chapter 9)

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4	- Fruits, vegetables, seaweed, nut and seed - Confectionery, chocolate - Beverage	- Aspartame 40 mg/kg to 2 000 mg/kg - Acesulfame K 10 mg/kg to 1 000 mg/kg 10 mg/L to 1 000 mg/L	In - house method : TM-CH-206 based on EN 12856 : 1999 In - house method : TM-CH-122 based on EN 12856 : 1999
5	- Fruits, vegetables, seaweed, nut and seed - beverage - sweetener - salts, spices, soup, sauce, salads and protein products	- Brix 2.5 °Brix to 70 °Brix	In - house method : TM-CH-056 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 932.12, 932.14 C, 983.17

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6	Meat	Pesticide residues Organochlorine group : - Aldrin - α -BHC - α -Endosulfan - β -Endosulfan - <i>cis</i> -Chlordane - <i>trans</i> -Chlordane - <i>p,p'</i> -DDD - Dieldrin - Endrin - Heptachlor - Heptachlor-exo-epoxide - Endosulfan-sulfate 0.01 mg/kg to 0.2 mg/kg	In - house method : TM-CH-054 based on Journal Food and Drug Analysis, Vol.13, No.2 (2005), page 151-158

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6 (cont.)	Meat	Pesticide residues Organophosphate group : - Chlorpyrifos - Diazinon - Ethion - Etrimfos - Fenitrothion - Fenthion - Malathion - Methidathion - Parathion-methyl - Pirimiphos-methyl - Pirimiphos-ethyl - Prothiofos - Terbufos - Triazophos 0.01 mg/kg to 0.2 mg/kg	In - house method : TM-CH-054 based on Journal Food and Drug Analysis, Vol.13, No.2 (2005), page 151-158

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6 (cont.)	Meat	Pesticide residues Organophosphate group : - Anilofos - Azinphos-ethyl - Chlorfenvinphos - EPN - Phosalone - Profenofos - Phosphamidon - Acephate - Azinphos-methyl - Chlorpyrifos-methyl - Dichlorvos - Dicrotophos - Dimethoate - Ethoprophos 0.01 mg/kg to 0.2 mg/kg	In - house method : TM-CH-054 based on Journal Food and Drug Analysis, Vol.13, No.2 (2005), page 151-158

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6 (cont.)	Meat	Pesticide residues Organophosphate group : - Methamidophos - Mevinphos - Monocrotophos - Omethoate - Parathion-ethyl - Quinalphos 0.01 mg/kg to 0.2 mg/kg	In - house method : TM-CH-054 based on Journal Food and Drug Analysis, Vol.13, No.2 (2005), page 151-158

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6 (cont.)	Meat	Pesticide residues Pyrethroid group : - lambda-Cyhalothrin - Cyfluthrin - Cypermethrin - Fenvalerate - Deltamethrin - Permethrin 0.01 mg/kg to 0.2 mg/kg	In - house method : TM-CH-054 based on Journal Food and Drug Analysis, Vol.13, No.2 (2005), page 151-158
7	Feed	- Aflatoxins B ₁ 0.5 µg/kg to 28 µg/kg B ₂ 0.6 µg/kg to 28 µg/kg G ₁ 0.7 µg/kg to 28 µg/kg G ₂ 0.5 µg/kg to 28 µg/kg	In - house method : TM-CH-008 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 991.31

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8	Raw material - cereal and nut	- Ochratoxin A 1 µg/kg to 20 µg/kg	In - house method : TM-CH-037 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2000.03
9	Fats and oils	Pesticide residues Pyrethroid group : - Bifenthrin - Permethrin - Deltamethrin - lambda-Cyhalothrin - Cyfluthrin - Cypermethrin - Fenvalerate 0.02 mg/kg to 0.2 mg/kg	In - house method : TM-CH-100 based on Proceedings of the 9 th International Conference on Environmental Science and Technology (2005) page A78-A83

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9 (cont.)	Fats and oils	Pesticide residues Organochlorine group : - Aldrin - Dicofol - HCB - α -BHC - γ -BHC - β -BHC - α -Endosulfan - β -Endosulfan - <i>cis</i> -Chlordane - <i>trans</i> -Chlordane - <i>p,p'</i> -DDD - <i>p,p'</i> -DDE - <i>o,p'</i> -DDD - <i>o,p'</i> -DDE 0.02 mg/kg to 0.2 mg/kg	In - house method : TM-CH-100 based on Proceedings of the 9 th International Conference on Environmental Science and Technology (2005) page A78-A83

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9 (cont.)	Fats and oils	Pesticide residues Organochlorine group : - <i>p,p'</i> -DDT - <i>o,p'</i> -DDT - Dieldrin - Endrin - Heptachlor - Heptachlor-exo-epoxide - Endosulfan-sulfate - Methoxychlor 0.02 mg/kg to 0.2 mg/kg - DDT 0.02 mg/kg to 0.8 mg/kg	In - house method : TM-CH-100 based on Proceedings of the 9 th International Conference on Environmental Science and Technology (2005) page A78-A83 In - house method : TM-CH-100 based on Proceedings of the 9 th International Conference on Environmental Science and Technology (2005) page A78-A83

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10	Food and beverage - Vegetables, Fruits - Cereal - Meat - Aquatic animals and products - Sugar - Sauce - Beverages	- Mercury 0.01 mg/kg to 5.00 mg/kg - Cadmium 0.01 mg/kg to 5.00 mg/kg - Antimony 0.025 mg/kg to 5.00 mg/kg - Lead 0.01 mg/kg to 5.00 mg/kg - Arsenic 0.025 mg/kg to 5.00 mg/kg - Chromium 0.03 mg/kg to 5.00 mg/kg - Nickel 0.05 mg/kg to 5.00 mg/kg	In - house method : TM-CH-048 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 999.10 In - house method : TM-CH-108 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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10 (cont.)	Food and beverage - Vegetables, Fruits - Cereal - Meat - Aquatic animals and products - Sugar - Sauce - Beverages	- Sorbic acid 40 mg/kg to 1 800 mg/kg - Potassium sorbate 53.6 mg/kg to 1 800 mg/kg - Benzoic acid 40 mg/kg to 1 800 mg/kg - Sodium benzoate 47.2 mg/kg to 1 800 mg/kg	In - house method : TM-CH-101 based on International Federation of Fruit Juice Producers, No.63 (1995), page 1-6
11	Effluent water	- Color 5.0 ADMI to 460 ADMI - COD 20 mg/L to 20 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2120 F Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 C

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12	Wastewater	- Color 5.0 ADMI to 460 ADMI - COD 20 mg/L to 20 000 mg/L - Odor Odor or Odorless	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2120 F Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2150 C

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12 (cont.)	Wastewater	- pH 4.0 to 10.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500 - H ⁺ B
		- Total dissolved solids dried at 180 °C 50 mg/L to 5 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 C
		- Total suspended solids dried from 103 °C to 105 °C 20 mg/L to 3 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2540 D

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12 (cont.)	Wastewater	- Phenol 0.5 µg/L to 100 µg/L	In - house method : TM-CH-059 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5530 B C
		- Sulphide 0.5 mg/L to 2 mg/L	In - house method : TM-CH-057 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500 S ²⁻ F
		- Formaldehyde 0.6 mg/L to 8 mg/L	In - house method : TM-CH-120 based on Handbook of water and wastewater analysis, Environmental Engineering Association of Thailand, 4 th ed., 2004

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12 (cont.)	Wastewater	- Oil & Grease 2.5 mg/L to 50 mg/L - BOD 2 mg/L to 10 000 mg/L - COD 20 mg/L to 20 000 mg/L	In - house method : TM-CH-052 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5520 B In - house method : TM-CH-111 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5210 B In - house method : TM-CH-058 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 B

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12 (cont.)	Wastewater	- Total Kjeldahl Nitrogen 5 mg/L to 400 mg/L - Barium 0.01 mg/L to 2.0 mg/L - Cadmium 0.008 mg/L to 0.15 mg/L - Copper 0.01 mg/L to 3 mg/L - Lead 0.04 mg/L to 0.4 mg/L - Manganese 0.01 mg/L to 1.5 mg/L	In - house method : TM-CH-103 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500 – N _{org} A, B In - house method : TM-CH-045 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B

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12 (cont.)	Wastewater	- Zinc 1 mg/L to 12 mg/L - Nickel 0.005 mg/L to 0.15 mg/L - Arsenic 1.10 µg/L to 12.5 µg/L - Selenium 1.0 µg/L to 50 µg/L - Mercury 0.11 µg/L to 3.0 µg/L - Hexavalent chromium 5 µg/L to 25 µg/L	In - house method : TM-CH-068 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B In - house method : TM-CH-043 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3500 – Cr B

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12 (cont.)	Wastewater	- Total chromium 1 µg/L to 150 µg/L - Trivalent chromium (By calculation) 1 µg/L to 150 µg/L	In - house method : TM-CH-045 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3120 B In - house method : TM-CH-043 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3500 – Cr B and 3120 B

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12 (cont.)	Wastewater	Pesticide residues Organophosphate group : - Dichlorvos - Mevinphos - Ethoprophos - Dimethoate - Terbufos - Diazinon - Etrimfos - Parathion-methyl - Fenitrothion - Pirimiphos-methyl - Malathion - Fenthion - Chlorpyrifos 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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12 (cont.)	Wastewater	Pesticide residues Organophosphate group : - Pirimiphos-ethyl - Chlorfenvinphos - Methidathion - Prothiophos - Profenofos - Ethion - Triazophos - EPN - Anilofos - Phosalone - Azinphos-ethyl 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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12 (cont.)	Wastewater	Pesticide residues Organophosphate group : - Methamidophos - Acephate - Omethoate - Dicrotophos - Monocrotophos - Phosphamidon - Chlorpyrifos-methyl - Parathion ethyl - Quinalphos - Fenthion sulfoxide - Fenthion sulfone - Azinphos methyl - Paraoxon methyl 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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12 (cont.)	Wastewater	Pesticide residues Organophosphate group : - Delta BHC - <i>o,p'</i> -Dicofol - <i>p,p'</i> -Dicofol - <i>o,p'</i> -DDE - Oxy chlordane - <i>o,p'</i> -DDD - Endrin ketone - Aldrin - HCB - α -BHC - γ -BHC - β -BHC - α -Endosulfan 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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12 (cont.)	Wastewater	Pesticide residues Organochlorine group : - β -Endosulfan - <i>cis</i> -Chlordane - <i>trans</i> -Chlordane - <i>p,p'</i> -DDD - <i>p,p'</i> -DDE - <i>p,p'</i> -DDT - <i>o,p'</i> -DDT - Dieldrin - Endrin - Heptachlor - Heptachlor-exo-epoxide - Endosulfan-sulfate - Dicofol - Methoxychlor 0.02 $\mu\text{g/L}$ to 40.00 $\mu\text{g/L}$	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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12 (cont.)	Wastewater	Pesticide residues Organochlorine group : - DDT 0.02 µg/L to 160.00 µg/L Pyrethroid group : - λ-Cyhalothrin - Cyfluthrin - Cypermethrin - Fenvalerate - Permethrin - Bifenthrin - Deltamethrin 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (cont.)	Wastewater	Pesticide residues Carbamate group : - Aldicarb sulfoxide - Aldicarb sulfone - Oxamyl - Methomy - Methiocarb sulfoxide - Methiocarb sulfone - 3-Hydroxycarbofuran - Aldicarb - Propoxer - Carbofuran - Carbaryl 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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Scope of Laboratory Accreditation

Laboratory Name : Asia Medical and Agricultural Laboratory and Research Center Public Company Limited

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Wang Thonglang, Bangkok 10310

Accreditation Number : Testing - 0096

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
12 (cont.)	Wastewater	Pesticide residues Carbamate group : - Thiodicarb - Isoprocarb - Fenobucarb - Methiocarb - Promecarb 0.02 µg/L to 40.00 µg/L	In - house method : TM-CH-090 based on United State Environmental Protection Agency, 1995, EPA Method 507, Revision 2.1 and EPA Method 508, Revision 3.1

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
13	Mineral water	- Conductivity 25 $\mu\text{S}/\text{cm}$ to 12 880 $\mu\text{S}/\text{cm}$	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2510 A B
14	Ice	- Conductivity 25 $\mu\text{S}/\text{cm}$ to 12 880 $\mu\text{S}/\text{cm}$	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2510 A, B
15	Bottled drinking water	- Conductivity 25 $\mu\text{S}/\text{cm}$ to 12 880 $\mu\text{S}/\text{cm}$	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2510 A, B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
16	Herbs and herbal products	- Arsenic 2.000 mg/kg to 6.000 mg/kg - Cadmium 0.150 mg/kg to 0.450 mg/kg - Lead 5.000 mg/kg to 15.000 mg/kg - Mercury 0.250 mg/kg to 0.750 mg/kg - Nickel 1.070 mg/kg to 3.210 mg/kg - Cobalt 0.240 mg/kg to 0.720 mg/kg - Vanadium 10.000 mg/kg to 30.000 mg/kg	In - house method : TM-PM-029 based on Thai Herbal Pharmacopoeia 2021 (Chapter 5.2)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
17	Feeding stuffs	- Calcium 179 mg/kg to 20 000 mg/kg - Copper 58 mg/kg to 500 mg/kg - Iron 39 mg/kg to 500 mg/kg - Magnesium 110 mg/kg to 5 000 mg/kg - Manganese 29 mg/kg to 500 mg/kg - Potassium 220 mg/kg to 20 000 mg/kg - Phosphorus 150 mg/kg to 5 000 mg/kg	In - house method : TM-CH-123 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 984.27

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
17 (cont.)	Feeding stuffs	- Sodium 145 mg/kg to 20 000 mg/kg - Zinc 60.0 mg/kg to 500 mg/kg	In - house method : TM-CH-123 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 984.27
18	Feed material	- Arsenic 0.20 mg/kg to 8.33 mg/kg - Lead 0.05 mg/kg to 8.33 mg/kg - Cadmium 0.03 mg/kg to 8.33 mg/kg - Antimony 0.05 mg/kg to 8.33 mg/kg - Mercury 0.04 mg/kg to 8.33 mg/kg	In - house method : TM-CH-108 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01

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Wang Thonglang, Bangkok 10310

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
19	Feed	- Arsenic 0.09 mg/kg to 8.33 mg/kg - Lead 0.03 mg/kg to 8.33 mg/kg - Cadmium 0.03 mg/kg to 8.33 mg/kg - Antimony 0.05 mg/kg to 8.33 mg/kg - Mercury 0.04 mg/kg to 8.33 mg/kg	In - house method : TM-CH-108 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2015.01
20	Chemical fertilizer	- Total iron 0.01 g/100 g to 29.34 g/100 g	In - house method : TM-AFZ-001 based on Notification of the Ministry of Agriculture and Cooperative Re: Prescibing the Method of Analysis of Chemical Fertilizer B.E.2559, Method 1.16.01

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Wang Thonglang, Bangkok 10310

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
20 (cont.)	Chemical fertilizer	- Total zinc 0.01 g/100 g to 55.07 g/100 g - Total manganese 0.01 g/100 g to 22.18 g/100 g - Total copper 0.01 g/100 g to 58.70 g/100 g	In - house method : TM-AFZ-001 based on Notification of the Ministry of Agriculture and Cooperative Re: Prescibing the Method of Analysis of Chemical Fertilizer B.E.2559, Method 1.17.01 In - house method : TM-AFZ-001 based on Notification of the Ministry of Agriculture and Cooperative Re: Prescibing the Method of Analysis of Chemical Fertilizer B.E.2559, Method 1.18.01 In - house method : TM-AFZ-001 based on Notification of the Ministry of Agriculture and Cooperative Re: Prescibing the Method of Analysis of Chemical Fertilizer B.E.2559, Method 1.19.01

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
20 (cont.)	Chemical fertilizer	- Boron 0.005 g/100 g to 17.49 g/100 g	In - house method : TM-AFZ-019 based on Notification of the Ministry of Agriculture and Cooperative Re: Prescibing the Method of Analysis of Chemical Fertilizer B.E.2559, Method 1.21.01

Issue Date : 29th November 2023

Signature :

(Mrs. Chantarat Vorasapavit)

Scientist, Senior Professional Level

Acting Director of Bureau of Laboratory Accreditation

Initial Issue Date 18th September 2012

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