

Name of Laboratory : Agricultural Chemistry Research and Soil Science Research Group,
Agricultural Production Science Research and Development Division,
Department of Agriculture

Address : 50 Phaholyothin Road, Ladyao, Jatujak, Bangkok 10900

Accreditation Number : Testing - 0028

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Scope of Testing Laboratory Accreditation

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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	Chemical fertilizer	- Total nitrogen 1.0 g/100 g to 46.5 g/100 g - Total nitrogen 0.5 g/100 g to 46.5 g/100 g - Ammonium nitrogen (Calculated as N) 0.5 g/100 g to 21.0 g/100 g	Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.05.01 Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.05.02 Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.06.01

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Chemical fertilizer	- Total phosphorus (Calculated as P_2O_5) 0.7 g/100 g to 61.7 g/100 g - Water soluble potassium (Calculated as K_2O) 1.0 g/100 g to 60.0 g/100 g - Calcium oxide (Calculated from total calcium) 0.02 g/100 g to 51.8 g/100 g	Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.09.01 Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.12.01 Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.13.01

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1 (cont.)	Chemical fertilizer	- Magnesium oxide (Calculated from total magnesium) 0.02 g/100 g to 81.0 g/100 g - Total sulfur 0.02 g/100 g to 30.0 g/100 g - Boron 0.004 g/100 g to 17.5 g/100 g	Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.14.01 Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.15.01 Notification of Ministry of Agriculture and Cooperatives Re: Prescribing the methods of analysis of chemical fertilizers, B.E. 2559, method 1.21.01
2	Rhizobium biofertilizer	- Counting rhizobium 1×10^3 cell/g of biofertilizer to 1×10^7 cell/g of biofertilizer	Handbook for Rhizobia : Methods in legume-Rhizobium Technology. 1994 (Most Probable Number)

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2 (cont.)	Rhizobium biofertilizer	- Identification of Microorganisms <i>Bradyrhizobium japonicum</i> , <i>Bradyrhizobium liaoningense</i>	Journal of AOAC International. 2018. Vol 101, No.5, 1593-1609 (MALDI-TOF MS)
3	Plant growth regulators	- Ethephon 1.2 g/100 g to 50.0 g/100 g	CIPAC Handbook : Vol.H: Analysis of Technical and Formulated Pesticides. 1998. Page 166-169 (Ethephon 373/TK/M/-)
4	Plant growth regulators (Technical)	- Ethephon 85.0 g/100 g to 97.0 g/100 g	CIPAC Handbook : Vol.H: Analysis of Technical and Formulated Pesticides. 1998. Page 166-169 (Ethephon 373/TK/M/-)

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