



Ref No. : 0303/16968

## CERTIFICATE OF TESTING LABORATORY ACCREDITATION

This is to certify that

*Center of Organic Agriculture Standard Development and Surveillance  
of Agrichemical Residues, Faculty of Agriculture Natural Resources  
and Environment, Naresuan University  
99 Moo 9, Phitsanulok-Nakornsawan Road, Tambon Thapo,  
Amphoe Mueang, Changwat Phitsanulok 65000*

has successfully undergone assessment according to ISO/IEC 17025 : 2017  
and under the Bureau of Laboratory Accreditation, Department of Science Service  
for the requirements, regulations and criteria for the competence of testing laboratories

LABORATORY ACCREDITATION  
Accreditation Number TESTING - 0311  
BLA-DSS

The scope of accreditation is as annexed hereto

Issue date : 26<sup>th</sup> November 2024

Expired date : 28<sup>th</sup> November 2027

Signature : *Chantararat Vorasapavit*

(Mrs. Chantararat Vorasapavit)

Director of Bureau of Laboratory Accreditation

Bureau of Laboratory Accreditation, Department of Science Service,  
Ministry of Higher Education, Science, Research and Innovation

Center of Organic Agriculture Standard Development  
and Surveillance of Agrichemical Residues

## Scope of Testing Laboratory Accreditation

Laboratory Name : Center of Organic Agriculture Standard Development and Surveillance  
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and Environment, Naresuan University

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Accreditation Number : Testing - 0311

Laboratory Status : ☒ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Effluent	- Total organic carbon 10.0 mg/L to 95.0 mg/L	In - house method : T-EC-7.2-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 5310 B
2	Surface water	- Total organic carbon 10.0 mg/L to 95.0 mg/L	In - house method : T-EC-7.2-02 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 5310 B
3	Soil	- Lead 60.0 mg/kg to 1 200 mg/kg  - Cadmium 6.0 mg/kg to 1 200 mg/kg	United States Environmental Protection Agency, 2007, EPA, Method 7000 B, Revision 2 and 1996, EPA, Method 3050 B, Revision 2

Initial Issue Date 29<sup>th</sup> November 2023

Issue Number 2

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
4	Mango	Pesticide residues Organophosphate group : - Chlorpyrifos - Diazinon - Ethion - Malathion - Parathion - Phosalone - Profenofos - Prothiofos - Pirimiphos-methyl - Triazophos 0.01 mg/kg to 0.1 mg/kg	BS EN 15662 (2018)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
4 (cont.)	Mango	Pesticide residues Pyrethroid group : - Bifenthrin - Cyfluthrin - Cypermethrin - Deltramethin - Fenvalerate - Lambda-Cyhalothrin 0.01 mg/kg to 0.1 mg/kg	BS EN 15662 (2018)

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4 (cont.)	Mango	Pesticide residues Carbamate group : - Carbaryl (NAC) - Carbofuran - Fenobucarb - Isoprocab - Methiocarb - Methomyl - Metolcarb (MTMC) - Oxamyl - Promecarb - Propoxur - Thiodicarb 0.01 mg/kg to 0.1 mg/kg	BS EN 15662 (2018)

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5	Vegetables and fruits	- Aerobic plate count CFU/g  - <i>E. coli</i> CFU/g  - Coliforms CFU/g	AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 990.12  AOAC Official Methods of Analysis, 22 <sup>nd</sup> ed., 2023, method 991.14

Issue Date : 26<sup>th</sup> November 2024

Signature : *Chantarat Vorasapant*  
(Mrs. Chantarat Vorasapant)

Director of Bureau of Laboratory Accreditation

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