

Name : National Institute of Metrology, Thailand  
Address : 3/4-5 Moo 3, Tambon Klong Ha, Amphoe Klong Luang,  
Changwat Pathumthani 12120  
Accreditation Number : RMP – 0004  
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Standard : ISO 17034:2016  
Reference No. : 0303/1116

### Scope of Reference Material Producer Accreditation

Name : National Institute of Metrology, Thailand

Address : 3/4-5 Moo 3, Tambon Klong Ha, Amphoe Klong Luang,  
Changwat Pathumthani 12120

Accreditation Number : RMP - 0004

Accreditation standard : ISO 17034 : 2016

Status :  Permanent  Site  Temporary  Mobile

Item Number	Reference material / Artifact or Matrix	Properties to be certified (Analyte/ Parameter or etc.)	Range of property value	Expanded uncertainty (Confidence level approximately 95%)	Characterization technique (s) used
Certified reference material					
1	Ethanol-water standard solution	Ethanol in aqueous matrix	0.1 mg/g to 5 mg/g	2 % to 5 % (Relative expanded uncertainty)	Gravimetric method
2	Ethanol-water standard solution	Ethanol in aqueous matrix	30 mg/g to 600 mg/g	2 % to 5 % (Relative expanded uncertainty)	Gravimetric method
3	Ethanol standard	Purity of ethanol	900 mg/g to 1 000 mg/g	0.6 % to 1.2 % (Relative expanded uncertainty)	Mass balance method

Initial Issue Date 6<sup>th</sup> February 2025

Issue Number 1

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

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Item Number	Reference material / Artifact or Matrix	Properties to be certified (Analyte/ Parameter or etc.)	Range of property value	Expanded uncertainty (Confidence level approximately 95%)	Characterization technique (s) used
Certified reference material					
4	Sucrose standard solution	Sucrose in aqueous matrix	5 % Brix to 60 % Brix  1.34026 to 1.44193 refractive index	0.020 % Brix to 0.090 % Brix  0.00009 to 0.00010 refractive index	Gravimetric method  Refractometry

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