

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-17061-01-00  
according to ISO/IEC 17025:2017

Period of validity: 11.09.2020 to 30.03.2022

Date of issue: 11.09.2020

Holder of certificate:

**Bureau of Standards, Jamaica (BSJ)**  
**Mass Metrology Laboratory and Flow & Volume Metrology Laboratory**  
**6 Winchester Road, P. O. Box 113, Kingston 10, Jamaica W. I.**

Calibration in the fields:

**Mechanical quantities**

- **Mass (mass standards)**

**Chemical analysis, reference materials**

- **Volume of liquids**

Abbreviations used: see last page

**Annex to the accreditation certificate D-K-17061-01-00**

**Permanent Laboratory**

**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement <sup>1)</sup>	Remarks
<b>Mass</b>  Mass standards	1 mg	OIML R 111-1: 2004 (E)	0.003 mg	For weight pieces according to OIML recommendation R 111-1:2004, Class E <sub>2</sub>
	2 mg		0.003 mg	
	5 mg		0.003 mg	
	10 mg		0.003 mg	
	20 mg		0.003 mg	
	50 mg		0.004 mg	
	100 mg		0.005 mg	
	200 mg		0.006 mg	
	500 mg		0.008 mg	
	1 g		0.010 mg	
	2 g		0.012 mg	
	5 g		0.016 mg	
	10 g		0.020 mg	
	20 g		0.025 mg	
	50 g		0.03 mg	
	100 g		0.05 mg	
	200 g		0.1 mg	
	500 g		0.25 mg	
	1 kg		0.5 mg	
	2 kg		1.0 mg	
5 kg	2.5 mg			
10 kg	5 mg			
20 kg	10 mg			

<sup>1)</sup> The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of  $k = 2$  unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.

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**Permanent Laboratory**

**Calibration and Measurement Capabilities (CMC)**

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement <sup>1)</sup>	Remarks
Mass standards	> 1 mg to 5 mg	ME04_W_03 00 (2018)	0.006 mg	For free nominal values
	> 5 mg to 10 mg		0.008 mg	
	> 10 mg to 20 mg		0.010 mg	
	> 20 mg to 50 mg		0.012 mg	
	> 50 mg to 100 mg		0.016 mg	
	> 100 mg to 200 mg		0.020 mg	
	> 200 mg to 500 mg		0.025 mg	
	> 500 mg to 1 g		0.03 mg	
	> 1 g to 2 g		0.04 mg	
	> 2 g to 5 g		0.05 mg	
	> 5 g to 10 g		0.06 mg	
	> 10 g to 20 g		0.08 mg	
	> 20 g to 50 g		0.10 mg	
	> 50 g to 100 g		0.16 mg	
	> 100 g to 200 g		0.3 mg	
	> 200 g to 500 g		0.8 mg	
	> 500 g to 1 kg		1.6 mg	
	> 1 kg to 2 kg		3.0 mg	
	> 2 kg to 5 kg		8.0 mg	
> 5 kg to 10 kg	16 mg			
> 10 kg to 20 kg	30 mg			
<b>Volume</b> Test Measures (prover)	5 L	Gravimetric Calibration by double substitution method	0.05 %	Reference temperature is 20 °C. The CMC refers to the nominal value.
	20 L			
	5 L	Volumetric Calibration EURAMET cg-21 Version 1.0	0.08 %	Reference temperature is 20 °C. The CMC refers to the nominal value.
	20 L			

**Abbreviations used:**

OIML	International Organization of Legal Metrology
EURAMET	European Association of National Metrology Institutes
CMC	Calibration and measurement capability

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