Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-15057-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **30.09.2022**

Date of issue: 30.09.2022

Holder of accreditation certificate:

Eppendorf Vertrieb Deutschland GmbH

with the locations

Peter-Henlein-Straße 2, 50389 Wesseling-Berzdorf
Im Thal 4, 82377 Penzberg
Magnusstraße 11, 12489 Berlin
Barkhausenweg 1, 22339 Hamburg
Mannheimer Straße 1, 69115 Heidelberg

The calibration laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.
The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and confirm generally with the principles of DIN EN ISO 9001.

Calibration in the fields:

Chemical and medical quantities

Chemical analysis, reference materials

- **Volume of liquids**

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measured quantity/ Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Volume Piston pipettes, dispensers	0.1 µL to < 1.0 µL	DIN EN ISO 8655-6: 2002 and DKD-R 8-1:2011 Gravimetric method Adjusted by dispensing into the weighing vessel.	8.0 % a) 6.0 % b) 4.0 % c)	The CMC refers to nominal volume. To state the best CMC value the reference temperature shall be set equal to the temperature of the test liquid. a) Instruments with fixed volume or upper test volume ($V_P = 1.0 \cdot V_N$) for instruments with variable volume b) Medium test volume (e.g. $V_P = 0.5 \cdot V_N$) for instruments with variable volume c) Lower test volume (e.g. $V_P = 0.1 \cdot V_N$) for instruments with variable volume V_N: Nominal volume V_P: Test volume
	1.0 µL to < 10 µL		0.80 % a) 0.60 % b) 0.40 % c)	
	10 µL to < 100 µL		0.35 % a) 0.26 % b) 0.18 % c)	
	100 µL to < 1000 µL		0,15 % a) 0,11 % b) 0,08 % c)	
	1 mL to < 10 mL		0,15 % a) 0,11 % b) 0,08 % c)	
	10 mL to 200 mL		0.15 % a) 0.11 % b) 0.08 % c)	
Multichannel piston pipettes	1.0 µL to < 10 µL		0.80 % a) 0.60 % b) 0.40 % c)	
	10 µL to < 100 µL		0.45 % a) 0.34 % b) 0.23 % c)	
	100 µL to 1250 µL		0.15 % a) 0.11 % b) 0.08 % c)	

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measured quantity/ Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Multiple dispensers	2,0 µL to < 20 µL	DIN EN ISO 8655-6:2002 and DKD-R 8-2:2018 Gravimetric method Adjusted by dispensing into the weighing vessel.	0.60 %	Adjusted by dispensing into the weighing vessel. To state the best CMC value the reference temperature shall be set equal to the temperature of the test liquid.
	20 µL to < 40 µL		0.40 %	
	40 µL to < 100 µL		0.30 %	
	100 µL to < 200 µL		0.20 %	
	200 µL to < 500 µL		0.15 %	
	500 µL to <2500 µL		0.10 %	
	2,5 mL to 50 mL		0.08 %	
Single stroke dispensers	10 µL to < 1.,0 mL	DIN EN ISO 8655-6:2002 DKD-R 8-3:2020 Adjusted by dispensing into the weighing vessel.	0.20 %	Adjusted by dispensing into the weighing vessel. To state the best CMC value the reference temperature shall be set equal to the temperature of the test liquid.
	1.0 mL to 200 mL		0.10 %	
Piston burettes	10 µL to < 10 mL		0.08 %	
	10 mL to 200 mL		0.03 %	

Abbreviations used:

CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
DIN	Deutsches Institut für Normung e.V.
DKD-R	Guideline of Deutscher Kalibrierdienst (DKD), published by Physikalisch-Technische Bundesanstalt
EN	Europäische Norm
ISO	International Standard Organisation