

epServices  
for premium performance



# Sophisticated Pipette Laboratory and Service Hub (SPLASH)

Eppendorf Pipette Calibration

# Pipette Service and Calibration Done Right Here!



Global quality standards assured with premium services by the experts.

World-class facility, accredited by NABL, is equipped to calibrate over 1,00,000 Pipettes in a year. Pipette Service and Calibration is done as per ISO 8655 and ISO 17025.

Highlight of the facility is calibration of all the channels of Multi-channel Pipettes (8- or 12- channels) done simultaneously at one go. We use Speedcal Mobile Multi-channel balance to calibrate all channels of Multi-channel Pipettes.



## Beyond ISO Conformity

We maintain over 5000 Pipette manufacturer specifications. We conform to the manufacturer limits when their Accuracy & Precision are better than ISO 8655 acceptance limits, if customer desired to have Certificates with manufacturer specified limits.



## Highly Trained Service Technicians

Our highly qualified Engineers go through extensive Pipette calibration and service training and must pass through rigorous evaluation to become certified, before servicing pipettes.

Seite 2 von 2 Seiten zum Kalibrierschein

Location of calibration: Eppendorf Vertrieb Deutschland GmbH, Hamburg

Calibration subject: Calibration certificate No. 2183002-00  
 Manufacturer: Eppendorf  
 Model/Type: Research plus 3100  
 Serial No.: 10000000000000000000  
 Issue date: 2020-10-13

Calibration procedure: Test according to DIN EN ISO 8655 + DKD-R 8-1

Measurement results	0.25 µl	0.50 µl	1.25 µl	1.50 µl	2.50 µl	2.50 µl
Mean	0.250	0.500	1.250	1.500	2.500	2.500
Standard deviation	0.002	0.003	0.004	0.005	0.006	0.007
Relative standard deviation	0.008	0.006	0.003	0.003	0.002	0.003
Expanded uncertainty (k=2)	0.004	0.006	0.008	0.010	0.012	0.014
Expanded uncertainty (k=2) [%]	1.6%	1.2%	0.6%	0.7%	0.5%	0.6%
Expanded uncertainty (k=2) [µl]	0.004	0.006	0.008	0.010	0.012	0.014
Expanded uncertainty (k=2) [%]	1.6%	1.2%	0.6%	0.7%	0.5%	0.6%
Expanded uncertainty (k=2) [µl]	0.004	0.006	0.008	0.010	0.012	0.014
Expanded uncertainty (k=2) [%]	1.6%	1.2%	0.6%	0.7%	0.5%	0.6%
Expanded uncertainty (k=2) [µl]	0.004	0.006	0.008	0.010	0.012	0.014
Expanded uncertainty (k=2) [%]	1.6%	1.2%	0.6%	0.7%	0.5%	0.6%

Table 1: Uncertainty (k=2)

## Audit Compliant Documentation

Our calibration documentation will give you peace of mind due to reduced workload for your qualification and regulatory audit process. Eppendorf calibration laboratories worldwide use validated "CalibRight" software for data transfer from weighing balance, Uncertainty result evaluation and certificate generation.



# Calibration Capabilities



## **Eppendorf epMotion Dispensing Tools Calibration:**

Volume range: 1  $\mu$ L to 1000  $\mu$ L

For calibration of dispensing tools of semi-automatic liquid handling instruments using a balance of 0.01 mg readability specially designed for automation.



## **Multichannel Pipette Calibration (4/6/8/12/24 channels)**

Volume range: 1  $\mu$ L to 1250  $\mu$ L

For calibration of Multichannel Pipettes using Multi-channel electronic balance Speedcal Mobile. This 12-channel electronic balance with 0.01 mg readability is the first installation in India. It can simultaneously weigh the dispensed volumes from all the channels of Multi-channel Pipette "Exactly in the same way it is used in the lab". Approximate time for calibrating a 12-Channel pipette is 30 minutes.



## **Single Channel Pipette Calibration**

Volume range: 0.5  $\mu$ L to 20  $\mu$ L

For calibration of single channel pipettes, which are of lesser than 20  $\mu$ L (nominal volume), using electronic balance of 0.001 mg readability.



## **Single Channel Pipette Calibration**

Volume range: 10  $\mu$ L to 1000  $\mu$ L

For calibration of single channel pipettes, which are of greater than 10  $\mu$ L up to 100  $\mu$ L (nominal volume), using electronic balance of 0.01 mg readability.



## **Calibration of exchange and dosing units of Auto-titrators**

Volume range: 1000  $\mu$ L to 50 mL

For calibration of Titrator dosing/exchange units using balance of 0.01 mg readability.



## **Calibration of Pipettes and Dispensers**

Volume range: 250  $\mu$ L to 50 mL

For calibration of Pipettes and Dispensers, which are of greater than 250  $\mu$ L to 50 mL, using a balance of 0.1 mg readability.

# Pipette Calibration Service

## Calibration Services – Ordering information

Service	Calibration measurements »As Is«	Calibration measurements »As Left«	Decontamination from outside* <sup>2</sup>	Checking, cleaning, lubricating* <sup>3</sup> before calibration	Single channel Pipette/Dispenser	8-channel Pipette	12-channel Pipette	16-channel Pipette	24-channel Pipette
ISO 8655 without Preventive Maintenance	10 per test volume* <sup>1</sup>		Included		0082 000 140	0082 000 161	0082 000 162	0082 000 181	0082 000 182
ISO 8655 including Preventive Maintenance		10 per test volume* <sup>1</sup>	Included	Included	0082 000 142	0082 000 165	0082 000 166	0082 000 185	0082 000 186

## Calibration Service Packages – Ordering information

Service	Calibration measurements »As Is«	Calibration measurements »As Left«	Outside decontamination* <sup>2</sup> ; checking, cleaning, lubrication* <sup>3</sup>	ISO 17025 Accreditation calibration certificate	Single channel Pipette/Dispenser	8-channel Pipette	12-channel Pipette	16-channel Pipette	24-channel Pipette
ISO 17025 including Preventive Maintenance		10 per test volume* <sup>1</sup>	Included	Included	0082 000 143	0082 000 167	0082 000 168	0082 000 187	0082 000 188
ISO 17025 Professional	10 per test volume* <sup>1</sup>	10 per test volume* <sup>1</sup>	Included	Included	0082 000 220	0082 000 221	0082 000 222	0082 000 223	0082 000 224

## Additional Services

On-site calibration services in your own laboratory  
Inquire at [calibration@eppendorf.co.in](mailto:calibration@eppendorf.co.in)

\*<sup>1</sup> 10%, 50% and 100% of nominal volumes for variable volume instruments.  
\*<sup>2</sup> Pipettes and dispensers and package equipment need to be decontaminated before sending in.  
\*<sup>3</sup> Internal parts

Service offers may differ by country.

Download decontamination form at [www.eppendorf.com/epServices](http://www.eppendorf.com/epServices).

We ensure our stringent and validated procedures are followed, for Eppendorf and other brand Pipettes:



Qualification and Certification

### ISO 8655

The ISO 8655 series addresses the needs of:

- > manufacturers, as a basis for quality control including, where appropriate, the issuance of manufacturer's declarations
- > calibration laboratories, test houses, users of the equipment and other bodies as a basis for independent calibration, testing, verification and routine tests.

The tests specified in the ISO 8655 series are intended to be carried out by trained personnel.

### ISO 17025

This document has been developed with the objective of promoting confidence in the operation of laboratories. This document contains requirements for laboratories to enable them to demonstrate they operate competently, and are able to generate valid results.