



a unit of Institute of Applied Quality Management ISO/IEC 17025:2017 accredited Laboratory



CC-3923

Issued to.

M/s: Lupin Diagnostics Limited - Laboratory

Kiran Plaza, 84, District Centre,

Chandrasekharpur, Bhubaneshwar - 751016,

Odisha (Orissa), India.

Form No.: M&P/LAB/FM/41

Cert. No. M&P/LAB/LDL-B/01/MP-01/24-25

Issue Date: 2-Aug-2024

CC392324000001168F ULR:

CALIBRATION CERTIFICATE

Date of Calibration	Calibration Due on	Page No.
31-Jul-2024	30-Jul-2025	1 of 1

Service Request / Order No.

Location of Calibration

: At Laboratory

Date of Receipt

: 30.07.2024

Description of Instrument

: Micropipette

Make

: MICROLIT (SI. No. 23300656)

Model /Type

: Variable

Range

: (20-200) µl

L/c.

: 0.2 µl

Identification No.

: LDL / SLB / LAB / PIPT / 01

Method of Calibration

: M&P/LAB/SOP/01/MECH/13 (Gravimetric Method)

Details of Standard Equipment used for Calibration:

Description	Traceability Certificate No. & Calibration Date	Valid upto	Calibration Agency
Electronic Balance (SI.No.14252668)	M&P/LAB/INT/05/EB-03/23-24, Dated: 23.08.2023	22.08.2024	Measure & Precision Engineers
Digital Thermometer with Sensor (SI.No.1802250)	TSC/23-24/19715-2, Dated:02.03.2024	01.03.2025	Transcal
Traceability: Standard used for calibration traceable to national standards through NABL accredited laboratory			

Environmental Condition

: Temperature: (25 ± 2) °C

Humidity: (50 ± 10)%RH

CALIBRATION RESULTS

SI. No.	Value Set on DUC*	Average Reading Observed through Ref. Std. at 27°C (Avg. of Ten Readings)	Systematic Error	Random Error	Expanded Uncertainty
	μl	μl	μl	μΙ	(±) µl
1	20.0	19.71	0.29		
2	100.0	101.50	-1.50	0.06	2.62
3	200.0	202.30	-2.30		

*Measurement uncertainty at 95% of confidence level for the maximum reported range & at a coverage factor of k = 2

Remarks: The above DUC has been calibrated over its above range & the readings obtained are tabulated above.

Note: 1. This certificate is refers only to the particular item submited for calibration.

- 2. Result reported are valid at the time of and under stated condition of measurement.
- 3. Next calibration due date is given as requested by the customer.
- 4. DUC*= Device Under Calibration.
- 5. Physical Status of the DUC is found OK.
- 6. This certificate shall not be reproduced except in full with out permission of head of laboratory.

7. Random Error Calculation has been done for the Maximum reported range.

Calibrated By:

S.Mondal (Calibration Engineer) KOLKATA 700 063

Approved By:

S.C. Das (Head of Laboratory)

386/1 Diamond Harbour Road, Thakurpukur, Kolkata - 700 063 Mobile: 9830562626, 9830953535, 8584885701 | Email: mandpcal@gmail.com



AMENITY MEASURES & PRECISIONS ENGINEERS PVT. LTD.

a unit of Institute of Applied Quality Management ISO/IEC 17025:2017 accredited Laboratory



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CALIBRATION CERTIFICATE

Date of Calibration	Calibration Due on	. Page No.
31-Jul-2024	30-Jul-2025	1 of 1

Service Request / Order No.

Location of Calibration : At Laboratory Date of Receipt : 30.07.2024 Description of Instrument

: Micropipette

Make : MICROLIT (SI. No. 23300600)

Model /Type : Variable Range : (100-1000) µl

L/c. : 1 µl

Identification No.

: LDL / SLB / LAB / PIPT / 02

Method of Calibration

: M&P/LAB/SOP/01/MECH/13 (Gravimetric Method)

Details of Standard Equipment used for Calibration:

Description	Traceability Certificate No. & Calibration Date	Valid upto	Calibration Agency
Analytical Balance (Sr.No.19417626)	M&P/LAB/INT/08/AB-01/23-24, Dated: 24.08.2023	23.08.2024	Measure & Precision Engineers
Digital Thermometer with Sensor (SI.No.1802250)	TSC/23-24/19715-2, Dated:02.03.2024	01.03.2025	Transcal
Traceability: Standard used for calibration	on traceable to national standards through NABL accredited labor	ratory	

Environmental Condition

: Temperature: (25 ± 2) °C

Humidity: (50 ± 10)%RH

CALIBRATION RESULTS

SI. No.	Value Set on DUC*	Average Reading Observed through Ref. Std. at 27°C (Avg. of Ten Readings)	Systematic Error	Random Error	Expanded Uncertainty
	μΙ	μl	μl	μl	(±) µl
1	100.0	100.86	-0.86		
2	500.0	501.77	-1.77	0.106	2.62
3	1000.0	1004.08	-4.08		

*Measurement uncertainty at 95% of confidence level for the maximum reported range & at a coverage factor of k = 2

Remarks: The above DUC has been calibrated over its above range & the readings obtained are tabulated above.

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KOLKATA

700 063

7. Random Error Calculation has been done for the Maximum reported range.

Calibrated By:

S.Mondal (Calibration Engineer) Approved By:

S.C. Das

(Head of Laboratory)

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