

CALIBRATION CERTIFICATE

Unique Lab Report (ULR) No.	Date Of Calibration	*Recommended Due Date of Calibration	Certificate Issue Date	Page No.
CC219722000002231F	19/05/2022	18/05/2023	19/05/2022	01 of 01

- 1.0 Customer Name & Address : ARPAN DIAGNOSTIC CENTRE
150 Feet Ring Road, Near Raj Bank,
Indira Circle, Rajkot, Gujarat - 360005
- 2.0 CRF No. : UL/275/2022
- 3.0 Discipline : Mechanical /Volume
- 4.0 Customer's Reference & Date : 18/05/2022
- 5.0 Condition of Received Instrument : Ok
- 6.0 Details Of Unit Under Calibration (UUC)* :

Nomenclature	Micro Pipette	Make	ERBA
ID No.	YE177AF0041469	Model No.	---
Range	10 to 100 μ l	Sr. No.	YE177AF0041469
Least Count	1 μ l	Location	---

- 7.0 Location Of Calibration : At Lab
- 8.0 Details Of Test Equipments / Reference Standard Used:

Equipment Used	Id No.	Certificate No.	Make	Cal. Due	Traceability
Digital Weighing Balance	UL/MDWB/002	CC219722000001992F	Wensar	02/05/2023	CC-2197

- 9.0 Calibration Procedure & Reference No. : UL/WI/M022 Based On: IS/ISO 4787:2010, ISO 8655-6, ISO/TR 20461.
- 10.0 Environment Conditions : Temperature : 21 to 28 °C Humidity : 50 \pm 10 % RH
- 11.0 Parameters Of Calibration : μ l
- 12.0 **CALIBRATION RESULTS**

Sr. No.	Set Value on UUC* (μ l)	Measured Mass Value on Master (μ l)	Deviation (μ l)	(\pm) Uncertainty
1.	10	10.13256	-0.13256	1.38 μ l
2.	50	50.22425	-0.22425	
3.	100	100.33563	-0.33563	

* All Readings are average of five readings.

13.0 **Remarks/Notes :**

- 13.1 The Calibration has been carried without adjustment.
- 13.2 The uncertainty of measurement is expressed at a confidence level of 95% having coverage factor k=2.
- 13.3 UUC* (Unit Under Calibration).
- 13.4 The reported results are valid at the time of performance of calibration under specified environment condition.
- 13.5 The calibration certificate shall not be reproduced, except in face, without permission of laboratory.
- 13.6 The results relate only to these Instruments calibrated.
- 13.7 The Standard Used For Calibration Is Calibrated by Using reference traceable to National/International Standard.
- 13.8 "Compliance" or "Compliance - The measurement result is within (or below) the Specification limit when the measurement uncertainty is taken into account". UUC result Pass or "Non-compliance" or "Non-compliance - The measurement result is outside (or above) the specification limit when the measurement uncertainty is taken into account". Result Fail

CALIBRATED BY

AUTHORIZED SIGNATORY

A. K. P.
Calibration Engineer



B. M. Vaseg
Technical Manager/Laboratory Head

** End of Certificate **

UL/FM/19

CALIBRATION CERTIFICATE

Unique Lab Report (ULR) No.	Date Of Calibration	*Recommended Due Date of Calibration	Certificate Issue Date	Page No.
CC219722000002232F	19/05/2022	18/05/2023	19/05/2022	01 of 01

- 1.0 Customer Name & Address : **ARPAN DIAGNOSTIC CENTRE**
150 Feet Ring Road, Near Raj Bank,
Indira Circle, Rajkot, Gujarat - 360005
- 2.0 CRF No. : UL/275/2022
- 3.0 Discipline : Mechanical /Volume
- 4.0 Customer's Reference & Date : 18/05/2022
- 5.0 Condition of Received Instrument : Ok
- 6.0 Details Of Unit Under Calibration (UUC)* :

Nomenclature	Micro Pipette	Make	DARAPET
ID No.	PD548361	Model No.	---
Range	100 to 1000 μ l	Sr. No.	PD548361
Least Count	5 μ l	Location	---

- 7.0 Location Of Calibration : At Lab
- 8.0 Details Of Test Equipments / Reference Standard Used:

Equipment Used	Id No.	Certificate No.	Make	Cal. Due	Traceability
Digital Weighing Balance	UL/MDWB/002	CC219722000001992F	Wensar	02/05/2023	CC-2197

- 9.0 Calibration Procedure & Reference No. : UL/WI/M022 Based On: IS/ISO 4787:2010, ISO 8655-6,
ISO/TR 20461.
- 10.0 Environment Conditions : Temperature : 21 to 28 °C Humidity : 50 \pm 10 % RH
- 11.0 Parameters Of Calibration : ml

CALIBRATION RESULTS

Sr. No.	Set Value on UUC* (ml)	Measured Mass Value on Master (ml)	Deviation (ml)	(\pm) Uncertainty
1.	100	101.29	-1.29	1.11 μ l
2.	500	502.51	-2.51	
3.	1000	1002.63	-2.63	

* All Readings are average of five readings.

13.0 **Remarks/Notes :**

- 13.1 The Calibration has been carried without adjustment.
- 13.2 The uncertainty of measurement is expressed at a confidence level of 95% having coverage factor k=2.
- 13.3 UUC* (Unit Under Calibration).
- 13.4 The reported results are valid at the time of performance of calibration under specified environment condition.
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"Non-compliance" or "Non-compliance – The measurement result is outside (or above) the specification limit when the measurement uncertainty is taken into account". Result Fail

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