

# Parashar Micro Measurement Pvt. Ltd.

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CC - 2795

## Calibration Certificate

|                                      |  |                    |            |
|--------------------------------------|--|--------------------|------------|
| <b>ULR - CC27952400000766F</b>       |  | Page 1 of 1        |            |
| Certificate Number : PMM/040124/14-2 |  | UUC Received on    | 04.01.2024 |
| Calibrated For                       | M/s. Central Labs.   | Calibrated on      | 04.01.2024 |
|                                      | Jannayak karpuri Thakur Medical College & Hospital,<br>Madhepura, Bihar. | Suggested Due Date | 03.01.2025 |
|                                      |  | Cert. Issue Date   | 05.01.2024 |

### Description of Equipments

|                          |               |                   |                |
|--------------------------|---------------|-------------------|----------------|
| Nomenclature             | Micro Pipette | Accuracy/Class    | Not Mentioned  |
| Range                    | 100 - 1000 µl | Condition of UUC  | Physically Ok  |
| Resolution / Least Count | 10 µl         | Serial No.        | YBA14AD0043945 |
| Make & Model No.         | Biopette      | Party ID Mark No. | -----          |
| Material / Type          | -----         | Location          | -----          |

### Master Equipment / Standard Used

| Sr.No. | Nomenclature             | Make & Model | Serial No. / I/D Mark | Calibrated From | Certificate No. | Due Date of Calibration |
|--------|--------------------------|--------------|-----------------------|-----------------|-----------------|-------------------------|
| 1      | Digital Weighing Machine | Sartorius    | PMM/WM/06             | PMMPL, Noida    | PMM/1486        | 12.05.2024              |

Standard used for calibration are traceable to Accredited lab, for Standard ISO/IEC : 17025-2017 or National Standards through unbroken chain of calibration.

|                                |                    |                      |                         |
|--------------------------------|--------------------|----------------------|-------------------------|
| Calibration Performed at       | Laboratory         | Environmental        | Temperature = 23 ± 2° C |
| Calibration Procedure No.      | CP/M/MV/04         | Condition(s)         | Humidity = 50 ± 10 % RH |
| Method Used                    | Gravimetric Method | Atmospheric Pressure | 990 hPa                 |
| Reference Standard / Guideline | ISO 8655-6         |                      |                         |

### Mechanical Calibration

### CALIBRATION RESULTS

| Sr.No. | Nominal Value in UUC (in µl) | Actual Observed Value Mean Value in Std. (in µl) | Mean Average Value at 27°C (in µl) | Systematic Error (in µl) | Random Error (in µl) |
|--------|------------------------------|--|------------------------------------|--------------------------|----------------------|
| 1      | 100                          | 101.00   | 101.12                             | 1.12                     | 0.07                 |
| 2      | 500                          | 501.46   | 502.03                             | 2.03                     | 0.05                 |
| 3      | 1000                         | 1001.94  | 1003.07                            | 3.07                     | 0.02                 |

UUC:- Unit Under Calibration.

Std. - Standard Instrument

Uncertainty of Measurement (at approx 95% Confidence Level with Coverage factor  $k = 2$ ) = ± 5.77 µl

Calibrated By : Pankaj Yadav  
 Designation : Calibration Engineer



Approved By : Jai Prakash  
 Designation : Tech. Manager / Auth. Sign.

- Conditions : 1. This certificate refers only to the particular item submitted for calibration.  
 2. The calibration result reported in this certificate are valid at the time of and under the stated conditions of measurement.  
 3. This particular certificate can not be reproduced except in full, without prior permission of chief executive officer of the lab.