

**CALIBRATION REPORT****STATUS : PASSED****DESCRIPTION :** Single Channel Micropipette 0.5-10  $\mu$ l**DEVICE ID :** 22305403**CALIBRATION DATE :** 4/04/2023 10:22 AM**Method ID :** VV/0.5-10 $\mu$ l**TERMINAL ID :** 69**ULR No. :** CC270522000148152F**Location :** Lucknow (Permanent Lab)**ENVIRONMENTAL FACTORS****TEMP :** 25.00  $^{\circ}$ C **Z FACTOR :** 1.0026 mm<sup>3</sup>/mg **BARO. PRESSURE :** 80.00 KPa **REL. HUMIDITY :** 60.00%**CALIBRATION STATISTICS**

| Vol ( $\mu$ l) | No | Cum Wt (mg) | Vol ( $\mu$ l) | Mean ( $\mu$ l) | SD ( $\mu$ l) | Inaccuracy E% |        | Imprecision CV% |        | Status |
|----------------|----|-------------|----------------|-----------------|---------------|---------------|--------|-----------------|--------|--------|
|                |    |             |                |                 |               | Actual        | Target | Actual          | Target |        |
| 2.000          | 1  | 2.100       | 2.105          | 2.005           | 0.100         | 0.250         | 5.00   | < 2.50          | 2.50   | PASSED |
|                | 2  | 4.000       | 1.905          |                 |               |               |        |                 |        |        |
|                | 3  | 6.000       | 2.005          |                 |               |               |        |                 |        |        |
| 5.000          | 1  | 5.000       | 5.013          | 5.013           | 0.100         | 0.260         | 2.00   | < 1.00          | 1.00   | PASSED |
|                | 2  | 9.900       | 4.913          |                 |               |               |        |                 |        |        |
|                | 3  | 15.000      | 5.113          |                 |               |               |        |                 |        |        |
| 10.000         | 1  | 10.000      | 10.026         | 10.059          | 0.058         | 0.593         | 1.00   | < 0.50          | 0.50   | PASSED |
|                | 2  | 20.100      | 10.126         |                 |               |               |        |                 |        |        |
|                | 3  | 30.100      | 10.026         |                 |               |               |        |                 |        |        |

| Volume            | Above 10 $\mu$ l to 100 $\mu$ l | Above 100 $\mu$ l to 1000 $\mu$ l | Above 1 ml to 10 ml | Above 10 ml to 100 ml |
|-------------------|---------------------------------|-----------------------------------|---------------------|-----------------------|
| Uncertainty (k=2) | 0.1 $\mu$ l                     | 0.1 $\mu$ l                       | 0.1 $\mu$ l         | 4 $\mu$ l             |



- \* Specifications conform to ISO:8655 standards.
- \* Each instrument is individually calibrated on electronic balance.
- \* 750 mmHg = 99.98 kPa.
- \* Weight in mg or g.
- \* Volume, Mean & S.D. in ml or  $\mu$ l.

**Reference standard**

The instrument is calibrated using a standard electronic balance with calibration traceability to NPL.

The reported expanded uncertainty of measurement is calculated by multiplying the standard uncertainty of measurement by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%.

**CALIBRATION REPORT****STATUS : PASSED****DESCRIPTION :** Single Channel Micropipette 20-200  $\mu$ l**DEVICE ID :** 23211945**CALIBRATION DATE :** 7/06/2023 11:51 AM**Method ID :** VV/20-200**TERMINAL ID :** 69**ULR No. :** CC270523000201864F**Location :** Lucknow (Permanent Lab)**ENVIRONMENTAL FACTORS****TEMP :** 25.00  $^{\circ}$ C **Z FACTOR :** 1.0026 mm<sup>3</sup>/mg **BARO. PRESSURE :** 80.00 KPa **REL. HUMIDITY :** 60.00%**CALIBRATION STATISTICS**

| Vol ( $\mu$ l) | No | Cum Wt (mg) | Vol ( $\mu$ l) | Mean ( $\mu$ l) | SD ( $\mu$ l) | Inaccuracy E% |        | Imprecision CV% |        | Status |
|----------------|----|-------------|----------------|-----------------|---------------|---------------|--------|-----------------|--------|--------|
|                |    |             |                |                 |               | Actual        | Target | Actual          | Target |        |
| 20.000         | 1  | 21.000      | 21.055         | 21.122          | 0.115         | 5.608         | 6.00   | < 2.00          | 2.00   | PASSED |
|                | 2  | 42.000      | 21.055         |                 |               |               |        |                 |        |        |
|                | 3  | 63.200      | 21.255         |                 |               |               |        |                 |        |        |
| 100.000        | 1  | 100.000     | 100.260        | 100.360         | 0.265         | 0.360         | 1.20   | < 0.40          | 0.40   | PASSED |
|                | 2  | 200.400     | 100.661        |                 |               |               |        |                 |        |        |
|                | 3  | 300.300     | 100.160        |                 |               |               |        |                 |        |        |
| 200.000        | 1  | 199.400     | 199.918        | 199.451         | 0.405         | 0.275         | 0.60   | < 0.20          | 0.20   | PASSED |
|                | 2  | 398.100     | 199.217        |                 |               |               |        |                 |        |        |
|                | 3  | 596.800     | 199.217        |                 |               |               |        |                 |        |        |

| Volume            | Above 10 $\mu$ l to 100 $\mu$ l | Above 100 $\mu$ l to 1000 $\mu$ l | Above 1 ml to 10 ml | Above 10 ml to 100 ml |
|-------------------|---------------------------------|-----------------------------------|---------------------|-----------------------|
| Uncertainty (k=2) | 0.1 $\mu$ l                     | 0.1 $\mu$ l                       | 0.1 $\mu$ l         | 4 $\mu$ l             |

- \* Specifications conform to ISO:8655 standards.
- \* Each instrument is individually calibrated on electronic balance.
- \* 750 mmHg = 99.98 kPa.
- \* Weight in mg or g.
- \* Volume, Mean & S.D. in ml or  $\mu$ l.

**Reference standard**

The instrument is calibrated using a standard electronic balance with calibration traceability to NPL.

The reported expanded uncertainty of measurement is calculated by multiplying the standard uncertainty of measurement by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%.







# REMI SALES & ENGINEERING LIMITED

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CIN : U31100MH1980PLC022314  
GST No. : 29AAACR0421M1ZF

## CALIBRATION CERTIFICATE

CUSTOMER

LUPIN HELATH CARE LIMITED  
KORAMANGALA  
BANGALORE

Certificate No: 91/2022-23  
Date : 08.03.2023

DESCRIPTION OF ITEM: LABORATORY CENTRIFUGE

MODEL NO: R- 8C

SL.NO. : ZIIN-37371

DETAILS OF EQUIPMENT USED FOR CALIBRATION:

| SR. | DESCRIPTION        | CERTIFIED BY   | CERTIFICATE NO. | VALIDITY   |
|-----|--------------------|----------------|-----------------|------------|
| 1   | DIGITAL TACHOMETER | BELTRONICS LAB | SRF NO. 5236-03 | 30.06.2023 |

OBSERVATIONS:

| SR. | INSTRUMENT SPEED DISPLAYED RPM | SPEED READING ON DIGITAL TACHO METER RPM | DIFFERENCE IN ACTUAL & TACHO METER RPM | REMARKS |
|-----|--------------------------------|--|--|---------|
| 1   | 1500                           | 1510                                     | 10                                     | O.K     |
| 2   | 4500                           | 4520                                     | 20                                     | O.K     |

NEXT CALIBRATION DUE ON: 07.03.2024

- REMARKS: 1) CALIBRATION TRACEABLE TO NATIONAL STANDARDS.  
2) OVERALL DEVIATIONS IS WITHIN SPECIFIED ACCURACY.  
3) RESULTS ARE RELATED ONLY TO THE ITEM CALIBRATED.  
4) MAXIMUM TOLERANCE PERMISSIBLE IS +/- 100RPM.

CALIBRATED BY: SUBHASH N S





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CIN : U31100MH1980PLC022314

GST No. : 29AAACR0421M1ZF

### CALIBRATION CERTIFICATE

#### CUSTOMER

LUPIN HELATH CARE LIMITED  
KORAMANGALA  
BANGALORE

Certificate No: 92/2022-23

Date : 08.03.2023

#### DESCRIPTION OF ITEM: LABORATORY CENTRIFUGE

MODEL NO: R- 8C

SL.NO. : ZIIN-31372

#### DETAILS OF EQUIPMENT USED FOR CALIBRATION:

| SR. | DESCRIPTION        | CERTIFIED BY   | CERTIFICATE NO. | VALIDITY   |
|-----|--------------------|----------------|-----------------|------------|
| 1   | DIGITAL TACHOMETER | BELTRONICS LAB | SRF NO. 5236-03 | 30.06.2023 |

#### OBSERVATIONS:

| SR. | INSTRUMENT SPEED DISPLAYED RPM | SPEED READING ON DIGITAL TACHO METER RPM | DIFFERENCE IN ACTUAL & TACHO METER RPM | REMARKS |
|-----|--------------------------------|--|--|---------|
| 1   | 1500                           | 1520                                     | 20                                     | O.K     |
| 2   | 4500                           | 4530                                     | 30                                     | O.K     |

NEXT CALIBRATION DUE ON: 07.03.2024

- REMARKS: 1) CALIBRATION TRACEABLE TO NATIONAL STANDARDS.  
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