

Medical Engineering & Services Things Beyond Thoughts

Abhcon Crown,X1/411/21,Ambadi Lane Kokkalai,Thrissur-21. Fh: 0487 2420367 Email: mescalibration.tsr@gmail.com Visit us @www.mescalibration.com

| | | | | CALIBRA | MOIT | V CERTIFIC | ATE | | | |
|-----------------|----------------|---|------------|----------------|--------------|---------------------------------|------------------------|----------|--------------|---------------|
| Certifica | ate Number | : | MES24/07 | /127-01 | | U | LR Number | : | CC2543240 | 00000631F |
| Custom | er Details | : | | | | t Unit No 102, da Andra prad | | | 9-6-7, Ramao | handra Rao |
| Date of | Calibration | : | 02/07/202 | 24 | | | SRF Number | : | 127 | |
| Next Ca | libration Due | : | 01/07/202 | 25 | | | Date of Issue | : | 02/07/2024 | ı |
| | | | DE | TAILS OF DEVI | CE UN | DER CALIBRAT | TON(DUC) | | | |
| Nomen | clature | : | Micropipe | tte | | | Serial No. | : | 23205754 | |
| Make / | Model | : | Microlit | | | | ID No. | : | - | |
| Equipme | ent Condition | : | Good | | | | Resolution | : | 0.02 μΙ | |
| Range | | : | 2 - 20 µL | | | | Location | : | Laboratory | |
| | | | | DETAILS OF N | MASTE | R EQUIPMENT | USED | | | |
| Nomend | clature | : | Electronic | Precision Bala | nce | Range | | | 0 - 210 gn | n |
| Make | | : | Boeco Ger | many | | Reada | bility 5 | | 0.01/0.1 n | |
| Model | | : | BBC-22 | | Serial | No. | | 27104178 | Ü | |
| Certificate No. | | : | TVCSPL 23 | /10/1135-01 | | Calibra | ition Due Dat | e : | 02.10.202 | 4 |
| | | | | ENVIRON | MENT | AL CONDITION | NS | | | |
| Te | emperature(°C) | | Relati | ive Humidity (| %) | | eric Pressure nbar) | | Water Ter | mperature(°C) |
| 25.5 | | | 57 | | | 1007 | | | 25.3 | |
| | | | | CALI | BRATIC | ON RESULTS | | | | |
| D | iscipline : | | Mecha | nical | | Parame | ter | : | V | olume |
| SI. | Set Volume | ! | Standard | Systematic | 1 | cceptable | Random | | ceptable | Expanded |
| No. | | _ | Value | Error | Syst | ematic Error | Error | Rar | dom Error | Uncertainty |
| | μΙ | | μl | μl | | ±μl | μΙ | | ±μl | ±μl |
| 1 | 10 | | 9.95 | 0.05 | | 0.12 | 0.05 | | 0.08 | 0.137 |

Notes: -

2

3

15

20

• The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

0.40

0.40

0.06

0.07

• The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.

-0.05

-0.05

Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.

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- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- · Calibration done for the customer requested ranges.

15.05

20.05

- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

Prabin KP (Calibration Engineer) **Authorized Signatory**

0.20

0.20

0.165

0.194



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| | | | | CALIBRA | ATIO | N CERTIFIC | CATE | | | |
|--|---------------------------------|---|--|-------------------------------------|------------------|--|-----------------------------|----------|---|-------------------------|
| Certific | cate Number | : | | 7/127-02 | | | ULR Number | : | CC25/132/1 | 000000632F |
| Custon | ner Details | : | Lupin Dia Road, Su | agnostics Limit ryarao Pet, Vija | ed, FLa ayawa | t Unit No 102 | , Bharathiran | nam 2 | 9-6-7, Rama | chandra Rao |
| | f Calibration alibration Due | : | 02/07/20 01/07/20 |)24)25 | | | SRF Number Date of Issue | : | | 4 |
| | | | D | ETAILS OF DEV | ICE UN | DER CALIBRA | TION(DUC) | | | |
| Make / | oclature Model | : | Micropip Microlit | ette | | | Serial No. ID No. | : | 23206977 | |
| Range | nent Condition | : | Good 20 - 200 μ | ıL | | | Resolution Location | : | 0.2 μl Laboratory | |
| | | | | DETAILS OF N | MASTE | R EQUIPMENT | LUSED | | , | |
| Nomenclature Make Model Certificate No. | | : | Electronic Precision Bala Boeco Germany BBC-22 TVCSPL 23/10/1135-01 | | nce | Range Readability Serial No. Calibration Due Date | | te | : 0 – 210 gm : 0.01/0.1 mg : 27104178 | |
| | | | | ENVIRON | IMENT | AL CONDITIO | | | 02.10.202 | 7 |
| Т | emperature(°C) | | Relat | tive Humidity (| | Atmosph | neric Pressure mbar) | • | Water Te | mperature(°C) |
| 25.7 | | | 56 | | | 1007 | | 25.5 | | |
| | | | | | BRATIC | ON RESULTS | | | | |
| Discipline : | | | Mechanical | | Parameter | | : | : Volume | | |
| SI. No. | Set Volume | | andard Value | Systematic Error | | cceptable ematic Error | Random Error | | ceptable dom Error | Expanded Uncertainty |
| | μl | | μΙ | μΙ | - | ±μl | μΙ | | ±μl | - |
| 1 | 20 | | 19.97 | 0.03 | | 0.40 | 0.02 | | 0.20 | ± μl 0.171 |
| 2 | 100 | 1 | 100.07 | -0.07 | | 1.40 | 0.21 | | 0.60 | 0.171 |
| 3 | 200 | 2 | 200.36 | -0.36 | | 12.00 | 0.35 | | 4.00 | 1.038 |

Notes: -

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.

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- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Calibration done for the customer requested ranges.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

(Calibration Engineer)

Authorized Signatory



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| | | | CALIBRA | TION CERTIFIC | ATE | | | |
|-------------------------------------|----------------|-------------------------|------------------------------------|---|-----------------------------|------------|-----------------------|-------------------------|
| Certifica | ate Number | : MES24/0 | 7/127-03 | U | JLR Number | : | CC2543240 | 00000633F |
| Custom | er Details | : Lupin Dia Road, Su | gnostics Limite yarao Pet, Vija | d, FLat Unit No 102, yawada Andra prad | Bharathiran esh - 520002 | nam 2 | | |
| Date of | Calibration | : 02/07/20 | 24 | | SRF Number | : | 127 | |
| Next Calibration Due | | : 01/07/20 | 25 | | Date of Issue | | 02/07/2024 | 1 |
| | | DI | ETAILS OF DEVI | CE UNDER CALIBRAT | TION(DUC) | | • | |
| Nomen | clature | : Micropipe | ette | | Serial No. | : | 23207771 | |
| Make / Model | | : Microlit | | | ID No. | : | - | |
| Equipment Condition | | : Good | | | Resolution | : | 0.2 μΙ | |
| Range | | : 100 - 100 | 0 μL | | Location | : | Laboratory | |
| • | | - | DETAILS OF N | MASTER EQUIPMENT | USED | | | |
| Nomenclature : Electronic Precision | | | | | | 0 – 210 gn | n | |
| Make : Boeco (| | : Boeco Ge | rmany | | Readability | | : 0.01/0.1 mg | |
| Model | | : BBC-22 | | Serial | | | 27104178 | 0 |
| Certificate No. | | : TVCSPL 23 | 3/10/1135-01 | Calibra | ation Due Dat | te : | 02.10.202 | 4 |
| | | | ENVIRON | MENTAL CONDITION | NS | | | |
| To | emperature(°C) | Rela | tive Humidity (| 201 | eric Pressure mbar) | 9 | Water Ter | mperature(°C) |
| 25.9 | | | 57 | | 1007 | | 25.6 | |
| | | | CALI | BRATION RESULTS | | | | |
| D | Discipline : | Mech | anical | Parame | ter | : | V | olume |
| Si. No. | Set Volume | Standard Value | Systematic Error | Acceptable Systematic Error | Random Error | | ceptable dom Error | Expanded Uncertainty |
| NO. | μΙ | μΙ | μΙ | ±μl | μΙ | | ±μl | ±μl |
| 1 | 100 | 99.95 | 0.05 | 1.40 | 0.36 | | 0.60 | 1.046 |
| 2 | 500 | 501.63 | -1.63 | 12.00 | 0.37 | | 4.00 | 1.085 |
| 3 | 1000 | 1003.78 | -3.78 | 12.00 | 0.38 | | 4.00 | 1.122 |

Notes: -

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- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

Prabin KP

(Calibration Engineer)

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Authorized Signatory

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ISO 9001-2015 certified company

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| (mbar) | chandra Rao | |
|---|----------------------|--|
| Road, Suryarao Pet, Vijayawada Andra pradesh – 520002. Date of Calibration : 02/07/2025 Date of Issue : 02/07/2025 DETAILS OF DEVICE UNDER CALIBRATION(DUC) Nomenclature : Micropipette Serial No. : 2305366 Make & Model : Microlit ID No. : - Equipment Condition : Good Resolution : 0.2 µl Range : 0.2 - 2 µl Location : Laborate DETAILS OF MASTER EQUIPMENT USED Nomenclature : Electronic Precision Balance Range : 0 - 210 Make : Boeco Germany Readability : 0.01/0. Model : BBC-22 Serial No. : 271041 Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2 ENVIRONMENTAL CONDITIONS Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) | chandra Rao | |
| Details of Device Under Calibration Due Details Of Device Under Calibration Device Under Calibration Due Device Details Of Device Under Calibration Due Date Devi | | |
| Nomenclature Micropipette Serial No. : 2305366 Make & Model : Microlit ID No. : - Equipment Condition Good Resolution : 0.2 μl Location : Laborate Laborate Location : Laborate Location | | |
| Nomenclature : Micropipette | 24 | |
| Make & Model : Microlit ID No. : - Equipment Condition : Good Resolution : 0.2 μl Range : 0.2 - 2 μl Location : Laborate DETAILS OF MASTER EQUIPMENT USED | | |
| Equipment Condition : Good Resolution : 0.2 μl Location : Laborate Laborate DETAILS OF MASTER EQUIPMENT USED | | |
| DETAILS OF MASTER EQUIPMENT USED | | |
| Nomenclature : Electronic Precision Balance Range : 0 – 210 Make : Boeco Germany Readability : 0.01/0. Model : BBC-22 Serial No. : 271041 Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2 ENVIRONMENTAL CONDITIONS Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) | | |
| Nomenclature : Electronic Precision Balance Range : 0 – 210 Make : Boeco Germany Readability : 0.01/0. Model : BBC-22 Serial No. : 271041 Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2 ENVIRONMENTAL CONDITIONS Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) | ry | |
| Make : Boeco Germany Readability : 0.01/0. Model : BBC-22 Serial No. : 271041 Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2 ENVIRONMENTAL CONDITIONS Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) | | |
| Model : BBC-22 Serial No. : 271041 Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2 ENVIRONMENTAL CONDITIONS Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) Water T | gm | |
| Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2 ENVIRONMENTAL CONDITIONS Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) Water T | L mg | |
| Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) Water T | 78 | |
| Temperature(°C) Relative Humidity (%) Atmospheric Pressure (mbar) Water T | 024 | |
| remperature(-C) Relative Humidity (%) (mbar) Water I | W. | |
| 26.5 | emperature(°C) | |
| 26.5 56 1007 | 26.3 | |
| CALIBRATION RESULTS | | |
| Discipline : Mechanical Parameter : | Volume | |
| Si no Set volume Actual volume Expand | Expanded uncertainty | |
| μ | ±μl | |
| 1 0.97 | ±μl | |

Notes: -

2

 The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

1.52

2.06

- The measurement uncertainty is estimate data confidence level of 95.45% with coverage factor k=2.
- · Results in this certificate shall not be reproduced except in full without the written approval of this centre.
- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

1.5

Prabin KP (Calibration Engineer) THRISSUR-21 CM

Authorized Signatory

Binoj Thomas (Technical Manager) ± 0.079

± 0.141

ISO 9001-2015 certified company

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| CATIRR | ATTON | CERTIFI | CATE |
|--------|-------|---------|------|

Certificate Number : MES/240702/C1

Customer Details Lupin Diagnostics Limited, FLat Unit No 102, Bharathiramam 29-6-7, Ramachandra Rao

Road, Suryarao Pet, Vijayawada Andra pradesh - 520002.

Date of Calibration : 02/07/2024

Next Calibration Due : 01/07/2025 Date of Issue : 02/07/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Serial No. : 22305386

Make & Model : Microlit ID No. :
Equipment Condition : Good Resolution : 0.2 μl

Danger : 0.2 - 2 μl

Location : Laboratory

Range : 0.2 - 2 μl Location

DETAILS OF MASTER EQUIPMENT USED

Nomenclature : Electronic Precision Balance Range : 0 – 210 gm

Make : Boeco Germany Readability : 0.01/0.1 mg

Model : BBC-22 Serial No. : 27104178
Certificate No. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2024

ENVIRONMENTAL CONDITIONS

| Temperature(°C) | Relative Humidity (%) | Atmospheric Pressure (mbar) | Water Temperature(°C) |
|-----------------|-----------------------|-----------------------------|-----------------------|
| 26.3 | 57 | 1007 | 26.1 |
| 20.5 | CALIBRATIO | ON RESULTS | |
| Discipline . | Mechanical | Parameter | : Volume |

| Mechanical | Parameter | : Volume |
|------------|-----------------------------------|--|
| | Actual volume | Expanded uncertainty |
| ш | μΙ | ±μl |
| 1 | 0.98 | ± 0.058 |
| 1.5 | 1.52 | ± 0.074 |
| 2 | 2.04 | ± 0.135 |
| | Mechanical Set volume µl 1 1.5 | Set volume Actual volume μl μl 1 0.98 1.5 1.52 |

Notes: -

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- Calibration certificate issued for scientific or industrial purpose only.
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

Prabin KP
(Calibration Engineer)

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