

# TECHNICAL RESOURCES

SALES, REPAIRS, AMC & FRANCHISE SERVICES OF ANALYTICAL, PRECISION, BIO-MEDICAL, BLOOD BANKING, IVF & HISTOPATHOLOGY LABORATORY EQUIPMENT.

A MSME Registered Unit, NSIC-CRISIL Rated SE 3C  
A NABL Accredited Laboratory

SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP. NEW PEDESTRAIN BRIDGE, NAVAGAON, DAHISAR (W), MUMBAI - 400 068.

Tel. : 022-28927149  
Email : info@technical-resources.in  
technicalresources@gmail.com  
Handset : 9819103181  
Webpage : www.technical-resources.in



## Calibration Certificate

Calibration field:	Mechanical-RPM	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate no:	CC211221000000264
Requisition no:	Oct2021-139	Date of calibration:	16.10.2021
Calibration done at	At Site	Agreed Next Calib On:	15.10.2022
		Page no:	1 of 2

<b>Customer details:</b>		<b>Reference used:</b>	
Name:	Minu Clinical Laboratory	Master	Tachometer DT-2001B
Address	Sunflower Building ,Shop no.7/8 Eksar Road, Borivali(West) Mumbai-400091	Master Ser. No.	O33442 ID No. RMOO2
		Traceable Certificate	M-210720-7-6
		Valid upto	24.07.2022

<b>Details of DUC:</b>		<b>Condition of item:</b>	
Equipment:	Centrifuge	Condition of item:	Good
Make:	Labtech	Range RPM	Not Specified
Model:	Not specified	Accuracy	Not Specified
Serial No.	MCL-EQP-07	Resolution (RPM)	Not Specified
ID No.	Not specified		
Location	Lab		

Ambient Temp(°C):	25+/- 2	Humidity Rh(%):	50 +/-20
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### Remark:

1. Calibration procedure used: LAB-SOP/08
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They donot convey any long term stability information.
4. The standards maintained are traceable to National / International Standards through accredited laboratories.
5. Sticker affixed on the unit

### Note:

1. This certificate refer only to particular instrument submitted for calibration.
2. This certificate shall not be reproduced.
3. Technical Resources shall not be responsible for any change in calibration date and performance specification on account of malfunctioning of the instrument due to damage caused to it after handing over it to the customer.

Authorised signatory  
Sr Technical Manager  
N Srinivas Rao



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## Calibration data:

<b>Equipment:</b>	Centrifuge	<b>Certificate no:</b>	CC211221000000264
<b>Serial no:</b>	MCL-EQP-07	<b>Date of calibration</b>	16.10.2021
<b>ID no.</b>	Not specified	<b>Page</b>	2 of 2

## RUN DETAILS

Set RPM Display	Avg. Reading on UUC Display RPM	Avg. Reading On Ref. RPM	Deviation in RPM (+/-)	Expanded Uncertainty in RPM (+/-)
SP-1	NA	2354.0	NA	25.0

END OF RESULT

20.10.2021  
Certificate Issue Date:

*Dilip*  
Checked By

Authorised signatory  
Sr Technical Manager  
N Srinivas Rao



F7.8.4

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## Calibration Certificate

Calibration field:	Mechanical-RPM	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate no:	CC211221000000265
Requisition no:	Oct2021-139	Date of calibration:	16.10.2021
Calibration done at	At Site	Agreed Next Calib On:	15.10.2022
		Page no:	1 of 2

Customer details:		Reference used:	
Name:	Minu Clinical Labouratory	Master	Tachometer DT-2001B
Address	Sunflower Building ,Shop no.7/8 Eksar Road, Borivali(West) Mumbai-400091	Master Ser. No.	O33442 ID No. RMOO2
		Traceable Certificate	M-210720-7-6
		Valid upto	24.07.2022

Details of DUC:		Condition of item:	Good
Equipment:	Centrifuge	Range RPM	Not Specified
Make:	Remi	Accuracy	Not Specified
Model:	R8C	Resolution (RPM)	Not specified
Serial No.	LELC-3515		
ID No.	Not specified		
Location	Lab		

Ambient Temp(°C):	25 +/- 2	Humidity Rh(%):	50 +/-20
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### Remark:

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## Calibration data:

<b>Equipment:</b>	Centrifuge	<b>Certificate no:</b>	CC211221000000265
<b>Serial no:</b>	LELC-3515	<b>Date of calibration</b>	16.10.2021
<b>ID no.</b>	Not specified	<b>Page</b>	2 of 2

## RUN DETAILS

Set RPM Display	Avg. Reading on UUC Display RPM	Avg. Reading On Ref. RPM	Deviation in RPM (+/-)	Expanded Uncertainty in RPM (+/-)
SP-1	NA	1132.6	NA	25.0
SP-2	NA	2065.6	NA	25.0
SP-3	NA	3043.4	NA	25.0

END OF RESULT

20.10.2021  
Certificate Issue Date:

  
Checked By

Authorised signature  
Sr Technical Manager  
N Srinivas Rao



F7.8.4

**TEMPERATURE CHECKING CHART**

Unit	Month <u>1 Dec 2021</u>															
<b>Date</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Morning (8:00 AM)	4.7	5.7	7.4	3.7	5.7	4.7	7.4	5.7	3.7	4.7	3.7	4.7	7.4	5.7	3.7	
Checked By	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	
Evening (5:00 PM)																
Checked By	7.4	6.1	7.5	4.7	7.4	7.4	7.5	7.4	4.7	5.7	5.7	7.4	7.4	7.4	7.5	
<b>Date</b>	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Morning (8:00 AM)	7.4	3.7	7.4	4.7	7.4	7.5	5.7	4.7	7.5	7.4	6.2	6.3	6.2	6.8	6.9	7.5
Checked By	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	←	←	←	←	←	←	←	←	←	←	←
Evening (5:00 PM)	4.7	5.7	7.5	5.7	7.5	7.4	6.6	5.7	7.6	7.4	6.2	6.5	6.9	6.9	7.4	7.5
Checked By	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	<del>Poll</del>	←	←	←	←	←	←	←	←	←	←	←

**TEMPERATURE CHECKING CHART** Jan - 2022

Unit	Month <u>Jan - 2022</u>															
<b>Date</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Morning (8:00 AM)	4.7	5.9	6.2	5.7	4.7	7.9	4.7	5.7	6.2	6.2	7.5	7.5	3.7	3.7	4.7	
Checked By	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	
Evening (5:00 PM)	5.7	5.9	7.4	7.5	4.7	7.9	5.7	5.7	6.2	6.2	7.5	7.5	4.7	5.7	6.7	
Checked By	←	←	←	←	←	←	←	←	←	←	←	←	←	←	←	
<b>Date</b>	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Morning (8:00 AM)	7.4	7.5	7.4	3.7	7.2	5.2	3.2	4.2	6.1	4.1	5.0	4.8	4.6	3.6	3.2	4.3
Checked By	←	←	←	←	←	←	←	←	←	←	AA	AA	AA	AA	←	AA
Evening (5:00 PM)	7.5	7.9	7.5	7.2	7.2	6.2	4.2	7.2	6.2	5.5	3.2	3.7	4.0	5.0	6.1	5.1
Checked By	←	←	←	←	←	←	←	←	←	←	AA	AA	AA	AA	←	AA



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technicalresources@gmail.com  
Handset : 9819103181  
Webpage : www.technical-resources.in

## Calibration Certificate

<b>Requisition no:</b>	Oct2021-IW-262	<b>Certificate no:</b>	TR/PIP/NON/2021/156
<b>Date of receipt:</b>	01.10.2021	<b>Date of calibration:</b>	04.10.2021
		<b>Agreed Next Calibration on:</b>	03.10.2022
		<b>Page no:</b>	1 of 2

<b>Customer details:</b>			
<b>Name:</b>	Minu Clinical Laboratory	<b>Location:</b>	Lab
<b>Address:</b>	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091		

<b>Details of DUC:</b>		<b>Reference used:</b>	
<b>Type:</b>	Micropipette Fixed	<b>Balance ID</b>	METTLER AE 163
<b>Make:</b>	Capp	<b>Balance Ser. No.</b>	LC046257
<b>Condition of item:</b>	Good	<b>Traceable Certificate</b>	CC/M&V/1932/20-21
<b>Pipette volume:</b>	5ul	<b>Valid upto</b>	28.12.2021
<b>Serial no:</b>	AD7945		
<b>ID No:</b>	Not Specified		

<b>Ambient Temp(°C):</b>	26.2	<b>Humidity(%Rh):</b>	67	<b>Conversion Factor Z:</b>	1.0045
<b>Air Pressure (hPa):</b>	1013	<b>Evaporation loss(mg):</b>	0.02		

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They do not convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissible limit

### Note:

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Authorized Signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate no:	TR/PIP/NON/2021/156
Serial no:	AD7945	Date of calibration:	04.10.2021
ID. No.:	Not Specified	Page no:	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1										
5.00	4.98	4.96	5.04	5.01	5.03	5.00	4.99	5.05	5.01	5.00

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	5.00
Mean $\mu$ l	5.05
Random Error $\mu$ l	0.03
Systematic Error $\mu$ l	0.05

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021

Certificate Issue Date:

  
Checked By

  
Authorized signatory  
Sr Technical Manager  
N Srinivas Rao



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<b>Requisition no:</b>	Oct2021-IW-262	<b>Certificate no:</b>	TR/PIP/NON/2021/161
<b>Date of receipt:</b>	01.10.2021	<b>Date of calibration:</b>	04.10.2021
		<b>Agreed Next Calibration on:</b>	03.10.2022
		<b>Page no:</b>	1 of 2

<b>Customer details:</b>		
<b>Name:</b>	Minu Clinical Laboratory	<b>Location:</b> Lab
<b>Address</b>	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091	

<b>Details of DUC:</b>		<b>Reference used:</b>	
<b>Type:</b>	Micropipette Fixed	<b>Balance ID</b>	METTLER AE 163
<b>Make:</b>	Capp	<b>Balance Ser. No.</b>	LC046257
<b>Condition of item:</b>	Good	<b>Traceable Certificate</b>	CC/M&V/1932/20-21
<b>Pipette volume:</b>	5ul	<b>Valid upto</b>	28.12.2021
<b>Serial no:</b>	IB13892		
<b>ID No:</b>	Not Specified		

<b>Ambient Temp(°C):</b>	26.2	<b>Humidity(%Rh):</b>	67	<b>Conversion Factor Z:</b>	1.0045
<b>Air Pressure (hPa):</b>	1013	<b>Evaporation loss(mg):</b>	0.02		

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They do not convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissible limit

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Sr Technical Manager  
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## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate no:	TR/PIP/NON/2021/161
Serial no:	IB13892	Date of calibration:	04.10.2021
ID. No.:	Not Specified	Page no:	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1										
5.00	5.02	5.08	4.99	4.97	5.06	5.01	5.09	5.07	4.99	5.08

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	5.00
Mean $\mu$ l	5.08
Random Error $\mu$ l	0.04
Systematic Error $\mu$ l	0.08

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021  
Certificate Issue Date:

*Qing*  
Checked By

  
Authorized signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration Certificate

<b>Calibration field:</b>	Mechanical-Mass-Volume	<b>NABL Accreditation no:</b>	CC-2112
<b>Accreditation valid upto:</b>	11.04.2022	<b>Certificate/ULR no:</b>	CC211221000002171
<b>Requisition no:</b>	Oct2021-IW-262	<b>Date of calibration:</b>	04.10.2021
<b>Date of receipt:</b>	04.10.2021	<b>Agreed Next Calibration on:</b>	03.10.2022
		<b>Page no:</b>	1 of 2

<b>Customer details:</b>		
<b>Name:</b>	Minu Clinical Laboratory	<b>Location:</b> Lab
<b>Address:</b>	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091	

<b>Details of DUC:</b>		<b>Reference used:</b>	
<b>Type:</b>	Micropipette Variable	<b>Balance ID</b>	METTLER AE 163
<b>Make:</b>	Capp	<b>Balance Ser. No.</b>	LC046257
<b>Condition of item:</b>	Good	<b>Traceable Certificate</b>	CC/M&V/1932/20-21
<b>Pipette volume:</b>	5-50µl	<b>Valid upto</b>	28.12.2021
<b>Serial no:</b>	IB13892		
<b>ID No:</b>	Not specified		

<b>Ambient Temp(°C):</b>	26.2	<b>Humidity(%Rh):</b>	67		
<b>Air Pressure (hPa):</b>	1013	<b>Evaporation loss(mg):</b>	0.02	<b>Conversion Factor Z:</b>	1.0045

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
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Authorised Signature of  
Sr Technical Manager  
N Srinivas Rao

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## Calibration data:

<b>Requisition no:</b>	Oct2021-IW-262	<b>Certificate/ULR no:</b>	CC211221000002171
<b>Serial no:</b>	IB13892	<b>Date of calibration:</b>	04.10.2021
<b>ID. No.:</b>	Not specified	<b>Page no:</b>	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1										
Vol 2										
25.00	25.11	25.13	25.07	25.09	25.02	25.05	25.11	25.18	25.12	25.07
Vol 3										
50.00	50.16	50.14	50.18	50.12	50.11	50.12	50.07	50.05	49.98	49.96

### SUMMARY STATISTICS

	Vol 1	Vol 2	Vol 3
Set Vol in $\mu$ l		25.00	50.00
Mean $\mu$ l		25.23	50.33
Random Error $\mu$ l		0.05	0.07
Systematic Error $\mu$ l		0.23	0.33
Exp Uncertainty $\pm \mu$ l		0.09	0.09

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021

Certificate Issue Date:

*[Signature]*  
Checked By

**TECHNICAL RESOURCES**  
Mumbai  
Authorized Signatory  
Sr Technical Manager  
N Srinivas Rao

# TECHNICAL RESOURCES

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A NABL Accredited Laboratory

Tel. : 022-28927149  
Email : info@technical-resources.in  
technicalresources@gmail.com  
Handset : 9819103181  
Webpage : www.technical-resources.in

SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP. NEW PEDESTRAIN BRIDGE, NAVAGAON, DAHISAR (W), MUMBAI - 400 068.

## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate no:	2171
Serial no:	IB13892	Date of calibration:	04.10.2021
ID. No.:	Not specified	Page no:	1 of 1

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1										
5.00	5.07	5.09	5.02	4.98	5.08	5.06	4.98	4.99	5.06	5.01

### SUMMARY STATISTICS

	Vol 1	Vol 2	Vol 3
Set Vol in $\mu$ l	5.00		
Mean $\mu$ l	5.08		
Random Error $\mu$ l	0.04		
Systematic Error $\mu$ l	0.08		
Exp Uncertainty $\pm\mu$ l	0.09		

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):  Within limits  Not Within limits

END OF RESULT

05.10.2021

Certificate Issue Date:

  
Checked By

  
Authorized signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration Certificate

<b>Calibration field:</b>	Mechanical-Mass-Volume	<b>NABL Accreditation no:</b>	CC-2112
<b>Accreditation valid upto:</b>	11.04.2022	<b>Certificate no:</b>	CC211221000002173
<b>Requisition no:</b>	Oct2021-IW-262	<b>Date of calibration:</b>	04.10.2021
<b>Date of receipt:</b>	01.10.2021	<b>Agreed Next Calibration on:</b>	03.10.2022
		<b>Page no:</b>	1 of 2

<b>Customer details:</b>		
<b>Name:</b>	Minu Clinical Laboratory	<b>Location:</b> Lab
<b>Address:</b>	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091	

<b>Details of DUC:</b>		<b>Reference used:</b>	
<b>Type:</b>	Fixed	<b>Balance ID</b>	METTLER AE 163
<b>Make:</b>	Capp	<b>Balance Ser. No.</b>	LC046257
<b>Condition of item:</b>	Good	<b>Traceable Certificate</b>	CC/M&V/1932/20-21
<b>Pipette volume:</b>	50µl	<b>Dated</b>	28.12.2021
<b>Serial no:</b>	IB13892		
<b>ID No:</b>	Not specified		

<b>Ambient Temp(°C):</b>	26.2	<b>Humidity(%Rh):</b>	67		
<b>Air Pressure (hPa):</b>	1013	<b>Evaporation loss(mg):</b>	0	<b>Conversion Factor Z:</b>	1.0045

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They donot convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissible limit

### Note:

1. This certificate refer only to particular instrument submitted for calibration.
2. This certificate shall not be reproduced.
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Authorized Signatory  
Sr Technical Manager  
N Srinivas Rao

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SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP. NEW PEDESTRAIN BRIDGE, NAVAGAON, DAHISAR (W), MUMBAI - 400 068.

## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate no:	CC211221000002173
Serial no:	IB13892	Date of calibration:	04.10.2021
ID No:	Not specified	Page no:	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1 50.00	50.11	50.13	50.07	50.09	50.03	49.97	49.96	50.09	50.11	50.07

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	50.00
Mean $\mu$ l	50.29
Random Error $\mu$ l	0.06
Systematic Error $\mu$ l	0.29
Exp Uncertainty $\pm\mu$ l	0.09

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021  
Certificate Issue Date:

  
Checked By

  
Authorized signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration Certificate

Calibration field:	Mechanical-Mass-Volume	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate no:	CC211221000002172
Requisition no:	Oct2021-IW-262	Date of calibration:	04.10.2021
Date of receipt:	01.10.2021	Agreed Next Calibration on:	03.10.2022
		Page no:	1 of 2

<b>Customer details:</b>			
Name:	Minu Clinical Laboratory	Location:	Lab
Address:	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091		

<b>Details of DUC:</b>		<b>Reference used:</b>	
Type:	Fixed	Balance ID	METTLER AE 163
Make:	Capp	Balance Ser. No.	LC046257
Condition of item:	Good	Traceable Certificate	CC/M&V/1932/20-21
Pipette volume:	10µl	Dated	28.12.2021
Serial no:	IB13892		
ID No:	Not specified		

Ambient Temp(°C):	26.2	Humidity(%Rh):	67	Conversion Factor Z:	1.0045
Air Pressure (hPa):	1013	Evaporation loss(mg):	0		

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They donot convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissible limit

### Note:

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Authorised Signatory  
Sr Technical Manager  
N Srinivas Rao



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technicalresources@gmail.com  
Handset : 9819103181  
Webpage : www.technical-resources.in



## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate no:	CC211221000002172
Serial no:	IB13892	Date of calibration:	04.10.2021
ID No:	Not specified	Page no:	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1 10.00	9.97	10.08	10.02	10.11	10.05	10.13	9.99	9.99	10.07	10.02

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	10.00
Mean $\mu$ l	10.09
Random Error $\mu$ l	0.05
Systematic Error $\mu$ l	0.09
Exp Uncertainty $\pm \mu$ l	0.09

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021  
Certificate Issue Date:

Checked By

Authorized signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration Certificate

Calibration field:	Mechanical-Mass-Volume	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate/ULR no:	CC211221000002176
Requisition no:	Oct2021-IW-262	Date of calibration:	04.10.2021
Date of receipt:	01.10.2021	Agreed Next Calibration on:	03.10.2022
		Page no:	1 of 2

Customer details:		
Name:	Minu Clinical Laboratory	Location: Lab
Address:	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091	

Details of DUC:		Reference used:	
Type:	Micropipette Fixed	Balance ID	METTLER AE 163
Make:	Capp	Balance Ser. No.	LC046257
Condition of item:	Good	Traceable Certificate	CC/M&V/1932/20-21
Pipette volume:	1000µl	Valid upto	28.12.2021
Serial no:	JC10082		
ID No:	Not Specified		

Ambient Temp(°C):	24.3	Humidity(%Rh):	59		
Air Pressure (hPa):	1013	Evaporation loss(mg):	0	Conversion Factor Z:	1.0045

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They donot convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissable limit

### Note:

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Authorized signatory  
Sr Technical Manager  
N Srinivas Rao

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technicalresources@gmail.com  
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Webpage : www.technical-resources.in



## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate/ULR no:	CC211221000002176
Serial no:	JC10082	Date of calibration:	04.10.2021
ID. No.:	Not Specified	Page no:	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1 1000.00	1000.16	1000.18	1000.25	1000.21	1000.27	1000.29	1000.28	1000.11	1000.16	1000.14

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	1000.00
Mean $\mu$ l	1004.71
Random Error $\mu$ l	0.06
Systematic Error $\mu$ l	4.71
Exp Uncertainty $\pm\mu$ l	0.27

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021

Certificate Issue Date:

*[Signature]*  
Checked By

*[Signature]*  
Authorised signatory  
Sr Technical Manager  
N Srinivas Rao



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## Calibration Certificate

Calibration field:	Mechanical-Mass-Volume	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate/ULR no:	CC211221000002175
Requisition no:	Oct2021-IW-262	Date of calibration:	04.10.2021
Date of receipt:	01.10.2021	Agreed Next Calibration on:	03.10.2022
		Page no:	1 of 2

Customer details:		
Name:	Minu Clinical Laboratory	Location: Lab
Address:	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091	

Details of DUC:		Reference used:	
Type:	Micropipette Fixed	Balance ID	METTLER AE 163
Make:	Capp	Balance Ser. No.	LC046257
Condition of item:	Good	Traceable Certificate	CC/M&V/1932/20-21
Pipette volume:	500µl	Valid Upto	28.12.2021
Serial no:	JC10082		
ID No:	Not specified		

Ambient Temp(°C):	24.3	Humidity(%Rh):	55		
Air Pressure (hPa):	1013	Evaporation loss(mg):	0.02	Conversion Factor Z:	1.0045

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They do not convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissible limit

### Note:

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Authorised signatory  
Sr Technical Manager  
N Srinivas Rao

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SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP. NEW PEDESTRAIN BRIDGE, NAVAGAON, DAHISAR (W), MUMBAI - 400 068.

## Calibration data:

Requisition no:	Oct2021-IW-262	Certificate/ULR no:	CC211221000002175
Serial no:	JC10082	Date of calibration:	04.10.2021
ID. No.:	Not specified	Page no:	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1 500.00	500.22	500.24	500.19	500.14	500.16	500.14	500.18	500.22	500.18	500.14

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	500.00
Mean $\mu$ l	502.45
Random Error $\mu$ l	0.04
Systematic Error $\mu$ l	2.45
Exp Uncertainty $\pm\mu$ l	0.09

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021  
Certificate Issue Date:

*Diny*  
Checked By



Authorised Signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration Certificate

<b>Calibration field:</b>	Mechanical-Mass-Volume	<b>NABL Accreditation no:</b>	CC-2112
<b>Accreditation valid upto:</b>	11.04.2022	<b>Certificate/ULR no:</b>	CC211221000002174
<b>Requisition no:</b>	Sep2021-IW-262	<b>Date of calibration:</b>	04.10.2021
<b>Date of receipt:</b>	01.10.2021	<b>Agreed Next Calibration on:</b>	03.10.2022
		<b>Page no:</b>	1 of 2

<b>Customer details:</b>		
<b>Name:</b>	Minu Clinical Laboratory	<b>Location:</b> Lab
<b>Address:</b>	Shop No.7/8, Sunflower, Royal Complex Eksar Road, Boriwali(W) Mumbai-400091	

<b>Details of DUC:</b>		<b>Reference used:</b>	
<b>Type:</b>	Micropipette Fixed	<b>Balance ID</b>	METTLER AE 163
<b>Make:</b>	Capp	<b>Balance Ser. No.</b>	LC046257
<b>Condition of item:</b>	Good	<b>Traceable Certificate</b>	CC/M&V/1932/20-21
<b>Pipette volume:</b>	100µl	<b>Dated</b>	28.12.2021
<b>Serial no:</b>	JC10082		
<b>ID No:</b>	Not Specified		

<b>Ambient Temp(°C):</b>	24.3	<b>Humidity(%Rh):</b>	59		
<b>Air Pressure (hPa):</b>	1013	<b>Evaporation loss(mg):</b>	0	<b>Conversion Factor Z:</b>	1.0045

### Remark:

1. Calibration procedure used: LAB SOP/09, 10 as per ISO 8655-6 & ISO/TR 20461 and NABL 129
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $K=2$ , providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They donot convey any long term stability information.
4. The reported results are calculated for 27°C
5. The standards maintained are traceable to National / International Standards through accredited laboratories.
6. Sticker affixed on the unit
7. Term Good indicates without any broken or missing parts.
8. Please check the values of SD weather in permissable limit

### Note:

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Authorised signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration data:

<b>Requisition no:</b>	Sep2021-IW-262	<b>Certificate/ULR no:</b>	CC211221000002174
<b>Serial no:</b>	JC10082	<b>Date of calibration:</b>	04.10.2021
<b>ID. No.;</b>	Not Specified	<b>Page no:</b>	2 of 2

### RUN DETAILS

Set Vol in $\mu$ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
<b>Vol 1</b>										
100.00	100.14	100.18	100.24	100.18	100.09	100.11	100.19	100.12	100.16	100.25

### SUMMARY STATISTICS

	Vol 1
Set Vol in $\mu$ l	100.00
Mean $\mu$ l	100.62
Random Error $\mu$ l	0.05
Systematic Error $\mu$ l	0.62
Exp Uncertainty $\pm\mu$ l	0.09

Status Of pipette (according to ISO 8655-2 & 6 :2002 permissible limits):-  Within limits  Not Within limits

END OF RESULT

05.10.2021  
 Certificate Issue Date:

*Srinivas*  
 Checked By



Authorized Signatory  
 Sr Technical Manager  
 N Srinivas Rao