

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-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:

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.
4. Any queries for the calibration certificate will be clarified only if raised with in 30days from date of issue. The reissue of certificate after 30 days will be chargeable.



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Serial no:	JC10082	Date of calibration:	04.10.2021
ID. No.:	Not Specified	Page no:	2 of 2

RUN DETAILS

Set Vol in μ 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 μ l	1000.00
Mean μ l	1004.71
Random Error μ l	0.06
Systematic Error μ 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:


Checked By


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%.
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Serial no:	JC10082	Date of calibration:	04.10.2021
ID. No.:	Not specified	Page no:	2 of 2

RUN DETAILS

Set Vol in μ 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 μ l	500.00
Mean μ l	502.45
Random Error μ l	0.04
Systematic Error μ 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
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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:	CC211221000002174
Requisition no:	Sep2021-IW-262	Date of calibration:	04.10.2021
Date of receipt:	01.10.2021	Agreed Next Calibration on:	03.10.2022
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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:	100µl	Dated	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
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ID. No.;	Not Specified	Page no:	2 of 2

RUN DETAILS

Set Vol in μ l	Weight in mg									
	1	2	3	4	5	6	7	8	9	10
Vol 1										
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 μ l	100.00
Mean μ l	100.62
Random Error μ l	0.05
Systematic Error μ 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:

[Signature]
 Checked By



Authorized Signatory
 Sr Technical Manager
 N Srinivas Rao