

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

Requisition no:	Oct2021-IW-262	Certificate no:	TR/PIP/NON/2021/161
Date of receipt:	01.10.2021	Date of calibration:	04.10.2021
		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:	5ul	Valid upto	28.12.2021
Serial no:	IB13892		
ID No:	Not Specified		

Ambient Temp(°C):	26.2	Humidity(%Rh):	67		
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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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 within 30 days from date of issue. The reissue of certificate after 30 days will be chargeable.



Authorised signatory
Sr Technical Manager
N Srinivas Rao

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Calibration data:

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Serial no:	IB13892	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										
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 μ l	5.00
Mean μ l	5.08
Random Error μ l	0.04
Systematic Error μ 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

Calibration field:	Mechanical-Mass-Volume	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate/ULR no:	CC211221000002171
Requisition no:	Oct2021-IW-262	Date of calibration:	04.10.2021
Date of receipt:	04.10.2021	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 Variable	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:	5-50µl	Valid upto	28.12.2021
Serial no:	IB13892		
ID No:	Not specified		

Ambient Temp(°C):	26.2	Humidity(%Rh):	67		
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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4. The reported results are calculated for 27°C
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6. Sticker affixed on the unit
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Calibration data:

Requisition no:	Oct2021-IW-262	Certificate/ULR no:	CC211221000002171
Serial no:	IB13892	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										
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 μ l		25.00	50.00
Mean μ l		25.23	50.33
Random Error μ l		0.05	0.07
Systematic Error μ 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

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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 μ 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 μ l	5.00		
Mean μ l	5.08		
Random Error μ l	0.04		
Systematic Error μ 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

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Calibration Certificate

Calibration field:	Mechanical-Mass-Volume	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2022	Certificate no:	CC211221000002173
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:	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:	50µl	Dated	28.12.2021
Serial no:	IB13892		
ID No:	Not specified		

Ambient Temp(°C):	26.2	Humidity(%Rh):	67		
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%.
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7. Term Good indicates without any broken or missing parts.
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Serial no:	IB13892	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 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 μ l	50.00
Mean μ l	50.29
Random Error μ l	0.06
Systematic Error μ 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
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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

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:	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
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Serial no:	IB13892	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 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 μ l	10.00
Mean μ l	10.09
Random Error μ l	0.05
Systematic Error μ 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:

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