

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

Tel. : 022-28927149 / 28917149
Email : 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
REG. OFF : C-19/20, SAGAR VAIBHAV, L. M. ROAD, DAHISAR (W), MUMBAI - 400 068.

Calibration Certificate

Calibration field:	Mechanical-Mass-Volume	NABL Accreditation no:	CC-2112
Accreditation valid upto:	11.04.2021	Certificate/ULR no:	CC211220000001565
Requisition no:	Dec2020-IW-284	Date of calibration:	16.12.2020
Date of receipt:	16.12.2020	Agreed Next Calibration on:	15.06.2021
		Page no:	1 of 2

Customer details:			
Name:	Vinamra Swaraj Hospital,	Location:	Lab
Address:	Plot108,109,Sector 11, Vashi, Navi Mumbai-400703		

Details of DUC:		Reference used:	
Type:	Micropipette Variable	Balance ID	METTLER AE 163
Make:	Thermo Digital	Balance Ser. No.	LC046257
Condition of item:	Good	Traceable Certificate	CC/M8V/2249/19-20
Pipette volume:	10-100ul	Valid upto	27.12.2020
Serial no:	N03046		
ID No:	Not Specified		

Ambient Temp(°C):	25.4	Humidity(%Rh):	53		
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.

Authorised signatory
Sr Technical Manager
N Srinivas Rao



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Calibration data:

Requisition no:	Dec2020-IW-284	Certificate/ULR no:	CC211220000001565
Serial no:	N03046	Date of calibration:	16.12.2020
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	10.11	10.06	10.12	10.07	10.04	10.09	10.11	10.05	10.14	10.08
Vol 2										
50.00	50.07	50.09	50.14	50.12	50.06	50.19	50.17	50.12	50.16	50.09
Vol 3										
100.00	100.18	100.16	100.19	100.12	100.18	100.22	100.24	100.08	100.11	100.09

SUMMARY STATISTICS

	Vol 1 μ l	Vol 2 μ l	Vol 3 μ l
Set Vol in μ l	10.00	50.00	100.00
Mean μ l	10.13	50.35	100.61
Random Error μ l	0.03	0.04	0.06
Systematic Error μ l	0.13	0.35	0.35
Exp Uncertainty $\pm\mu$ l	0.09	0.09	0.09

END OF RESULT

17.12.2020
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:	11.04.2021	Certificate/ULR no:	CC211220000001564
Requisition no:	Dec2020-IW-284	Date of calibration:	16.12.2020
Date of receipt:	16.12.2020	Agreed Next Calibration on:	15.06.2021
		Page no:	1 of 2

Customer details:		
Name:	Vinamra Swaraj Hospital,	Location: Lab
Address:	Plot108,109,Sector 11, Vashi, Navi Mumbai-400703	

Details of DUC:		Reference used:	
Type:	Micropipette Variable	Balance ID	METTLER AE 163
Make:	Thermo Colour	Balance Ser. No.	LC046257
Condition of item:	Good	Traceable Certificate	CC/M&V/2249/19-20
Pipette volume:	5-50 μ l	Valid upto	27.12.2020
Serial no:	J35413		
ID No:	Not Specified		

Ambient Temp($^{\circ}$ C):	25.5	Humidity(%Rh):	58		
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 donot convey any long term stability information.
4. The reported results are calculated for 27 $^{\circ}$ 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.
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Calibration data:

Requisition no:	Dec2020-IW-284	Certificate/ULR no:	CC211220000001564
Serial no:	J35413	Date of calibration:	16.12.2020
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	25.15	25.09	25.16	25.19	25.11	25.16	25.02	25.07	25.09
Vol 3										
50.00	50.04	50.07	50.11	50.16	50.08	50.02	50.07	50.11	50.14	50.16

SUMMARY STATISTICS

	Vol 1	Vol 2	Vol 3
Set Vol in μ l		25.00	50.00
Mean μ l		25.25	50.34
Random Error μ l		0.05	0.05
Systematic Error μ l		0.25	0.34
Exp Uncertainty μ l		0.09	0.09

END OF RESULT

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Calibration data:

Requisition no:	Dec2020-IW-284	Certificate no:	1564
Serial no:	J35413	Date of calibration:	16.12.2020
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	4.96	4.94	4.98	4.99	5.06	5.01	5.07	5.00	5.06	4.99

SUMMARY STATISTICS

	Vol 1	Vol 2	Vol 3
Set Vol in μ l	5.00		
Mean μ l	5.10		
Random Error μ l	0.04		
Systematic Error μ l	0.10		
Exp Uncertainty $\pm\mu$ l	0.09		

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Customer details:		
Name:	Vinamra Swaraj Hospital,	Location: Lab
Address:	Plot108,109,Sector 11, Vashi, Navi Mumbai-400703	

Details of DUC:		Reference used:	
Type:	Micropipette Variable	Balance ID	METTLER AE 163
Make:	Thermo F3	Balance Ser. No.	LC046257
Condition of item:	Good	Traceable Certificate	CC/M&V/2249/19-20
Pipette volume:	20-200µl	Valid upto	27.12.2020
Serial no:	KW01192		
ID No:	Not Specified		

Ambient Temp(°C):	25.4	Humidity(%Rh):	53		
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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Calibration data:

Requisition no:	Dec2020-IW-284	Certificate/ULR no:	CC211220000001566
Serial no:	KW01192	Date of calibration:	16.12.2020
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										
20.00	20.14	20.16	20.11	20.13	20.05	20.07	20.09	20.12	20.14	20.15
Vol 2										
100.00	100.25	100.27	100.18	100.22	100.27	100.29	100.21	100.19	100.17	100.11
Vol 3										
200.00	200.35	200.38	200.36	200.31	200.28	200.24	200.32	200.35	200.37	200.39

SUMMARY STATISTICS

	Vol 1 μ l	Vol 2 μ l	Vol 3 μ l
Set Vol in μ l	20.00	100.00	200.00
Mean μ l	20.21	100.67	201.24
Random Error μ l	0.04	0.06	0.05
Systematic Error μ l	0.21	0.67	1.24
Exp Uncertainty \pm μ l	0.27	0.27	0.27

END OF RESULT

17.12.2020
Certificate Issue Date:

Srinivas
Checked By

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