



APEX QUALITY CERTIFICATION SERVICES PVT. LTD.

Add.: 161, Kasturba Nagar, Nirman Nagar, Jaipur-302 019
Ph.: 0141-4036776, 9414079483, 9636293333
Email: apex.qcs@gmail.com



NABL ACCREDITED LAB
Cert. No.: CC-2298

CALIBRATION CERTIFICATE

ULR: CC22982100001546F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW) House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	CERTIFICATE NO.: AQCS/21061602.001 Date of Issue of Certificate 18/06/2021 Date of Calibration 16/06/2021 Recommended due date 15/06/2022	

Service Request No. 210612/02	INSTRUMENT DESCRIPTION
Service Request Date 12/06/2021	Nomenclature Micropipette
DUC Receipt Date 14/06/2021	Make Sapsun
DUC Condition OK	Model NA
Cal. Performed At Lab	Sr. No. / Ident. 71605235 / BLAL/AL/MICP/01
Procedure Followed CP/VM-01	Range 20-200 μ l
Environmental Condition	Least Count 0.2 μ l
Temperature 25 \pm 2 $^{\circ}$ C Rel. Hum. 50 \pm 10%	Location --

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
20.0	19.88	0.12	19.88	0.66
50.0	49.87	0.13	49.87	0.66
100.0	99.84	0.16	99.85	0.66
150.0	149.81	0.19	149.82	0.66
200.0	199.77	0.23	199.79	0.66

REMARKS :

- Expanded uncertainty of Measurement at approximately 95 % confidence level for coverage factor k = 2 is as given above.
- The result reported in this certificate is valid at the time of and under the stated conditions of Measurement for the particular item and instrument identified above.
- This certificate shall not be reproduced, except in full, unless a written permission for the publication of an approved abstract has been obtained from the Director, Apex Quality Certification Services Pvt. Ltd. Jaipur
- Calibration of volumetric measures done is meant for scientific and industrial purpose only, However, if used for commercial trading, additional recognition/approval shall be complied as required by Dept. of legal Calibration, regulatory bodies etc.
- Format Number.: F-06/00

Calibrated by

(V. B. Mathew)



Approved by

(R. R. Yadav)
Quality Manager



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CALIBRATION CERTIFICATE

ULR: CC229821000001548F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW) House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	CERTIFICATE NO.: Date of Issue of Certificate Date of Calibration Recommended due date	AQCS/21061602.003 18/06/2021 16/06/2021 15/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION
Service Request Date	12/06/2021	Nomenclature Micropipette
DUC Receipt Date	14/06/2021	Make Mispa i2
DUC Condition	OK	Model NA
Cal. Performed At	Lab	Sr. No. / Ident. LW04084 / BLAL/AL/MICP/02
Procedure Followed	CP/VM-01	Range 2-20 μ l
Environmental Condition		Least Count 0.02 μ l
Temperature 25 \pm 2 $^{\circ}$ C	Rel. Hum. 50 \pm 10%	Location --

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
10.00	9.87	0.13	9.87	0.66
15.00	14.86	0.14	14.87	0.66
20.00	19.83	0.17	19.84	0.66

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Cert. No.: CC-2298

CALIBRATION CERTIFICATE

ULR: CC229821000001547F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS	CERTIFICATE NO.:	AQCS/21061602.002
M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW)	Date of Issue of Certificate	18/06/2021
House No. 12, Near Ambedkar Circle, Lajpat Nagar,	Date of Calibration	16/06/2021
Alwar-301001 (Rajasthan)	Recommended due date	15/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION
Service Request Date	12/06/2021	Nomenclature Micropipette
DUC Receipt Date	14/06/2021	Make Mispa i2
DUC Condition	OK	Model NA
Cal. Performed At	Lab	Sr. No. / Ident. YN4A007556 / BLAL/AL/MICP/03
Procedure Followed	CP/VM-01	Range 20-200 μ l
Environmental Condition		Least Count 0.2 μ l
Temperature 25 \pm 2 $^{\circ}$ C	Rel. Hum. 50 \pm 10%	Location --

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
20.0	19.72	0.28	19.72	0.66
50.0	49.70	0.30	49.71	0.66
100.0	99.70	0.30	99.71	0.66
150.0	149.67	0.33	149.68	0.66
200.0	199.63	0.37	199.64	0.66

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NABL ACCREDITED LAB
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CALIBRATION CERTIFICATE

ULR: CC229821000001549F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS	CERTIFICATE NO.:	AQCS/21061602.004
M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW)	Date of Issue of Certificate	18/06/2021
House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	Date of Calibration	16/06/2021
	Recommended due date	15/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION	
Service Request Date	12/06/2021	Nomenclature	Micropipette
DUC Receipt Date	14/06/2021	Make	Thermo Scientific
DUC Condition	OK	Model	NA
Cal. Performed At	Lab	Sr. No. / Ident.	QW06861 / BLAL/AL/MICP/04
Procedure Followed	CP/VM-01	Range	100-1000 μ l
Environmental Condition		Least Count	1 μ l
Temperature	25 \pm 2 $^{\circ}$ C	Location	--
Rel. Hum.	50 \pm 10%		

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
100	99.79	0.21	99.80	0.66
250	249.77	0.23	249.79	0.66
500	499.76	0.24	499.80	0.66
750	749.71	0.29	749.76	0.66
1000	999.69	0.31	999.76	0.66

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CALIBRATION CERTIFICATE

ULR: CC229821000001550F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS	CERTIFICATE NO.:	AQCS/21061602.005
M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW)	Date of Issue of Certificate	18/06/2021
House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	Date of Calibration	16/06/2021
	Recommended due date	15/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION	
Service Request Date	12/06/2021	Nomenclature	Micropipette
DUC Receipt Date	14/06/2021	Make	Thermo Scientific
DUC Condition	OK	Model	NA
Cal. Performed At	Lab	Sr. No. / Ident.	OW12612 / BLAL/AL/MICP/06
Procedure Followed	CP/VM-01	Range	5-50 μ l
Environmental Condition		Least Count	0.1 μ l
Temperature 25 \pm 2 $^{\circ}$ C	Rel. Hum. 50 \pm 10%	Location	--

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
10.0	10.18	-0.18	10.18	0.66
20.0	20.23	-0.23	20.23	0.66
30.0	30.24	-0.24	30.24	0.66
40.0	40.31	-0.31	40.32	0.66
50.0	50.35	-0.35	50.35	0.66

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CALIBRATION CERTIFICATE

ULR: CC229821000001551F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW) House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	CERTIFICATE NO.: Date of Issue of Certificate Date of Calibration Recommended due date	AQCS/21061602.006 18/06/2021 16/06/2021 15/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION
Service Request Date	12/06/2021	Nomenclature Micropipette
DUC Receipt Date	14/06/2021	Make Thermo Scientific
DUC Condition	OK	Model F3
Cal. Performed At	Lab	Sr. No. / Ident. QW06878 / BLAL/AL/MICP/07
Procedure Followed	CP/VM-01	Range 100-1000 μ l
Environmental Condition		Least Count 1 μ l
Temperature 25 \pm 2 $^{\circ}$ C	Rel. Hum. 50 \pm 10%	Location --

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
100	99.86	0.14	99.87	0.66
250	249.85	0.15	249.86	0.66
500	499.83	0.17	499.86	0.66
750	749.78	0.22	749.84	0.66
1000	999.73	0.27	999.80	0.66

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CALIBRATION CERTIFICATE

		Page 01 of 01
CUSTOMER'S DETAILS		CERTIFICATE NO.: AQCS/21061602.10008
M/s DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW)		Date of Issue of Certificate 18-06-2021
House No. 12, Near Ambedkar Circle, Lajpat Nagar,		Date of Calibration 16-06-2021
Alwar - 301001 (Rajasthan)		Recommended due date 15-06-2022

Service Request No.		210612/02		INSTRUMENT DESCRIPTION	
Service Request Date	12-06-2021	Nomenclature	Micropipette	Make	Thermo scientific
DUC Receipt Date	14-06-2021	Model	F3	Sr. No. / Ident. No.	NW05378 / BLAL/AL/MICP/09
DUC Condition	OK	Range	1-10 μ l	Least Count	0.02 μ l
Cal. Performed At	Lab	Location	--		
Procedure Followed	CP/VM-01				
Environmental Condition					
Temperature	25 \pm 2 $^{\circ}$ C	Rel. Hum.	50 \pm 10%		

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00002 & 0.0002 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
1.00	0.99	0.01	0.99	0.30
2.50	1.47	0.03	1.47	0.58
5.00	4.96	0.04	4.96	0.66
7.50	7.45	0.05	7.45	0.66
10.00	9.93	0.07	9.93	0.66

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NABL ACCREDITED LAB

Cert. No.: CC-2298

CALIBRATION CERTIFICATE

ULR: CC22982100001552F	DISCIPLINE Mechanical	Page 01 of 01
CUSTOMER'S DETAILS M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW) House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	CERTIFICATE NO.: Date of Issue of Certificate Date of Calibration Recommended due date	AQCS/21061602.007 18/06/2021 16/06/2021 15/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION	
Service Request Date	12/06/2021	Nomenclature	Micropipette
DUC Receipt Date	14/06/2021	Make	Erba
DUC Condition	OK	Model	NA
Cal. Performed At	Lab	Sr. No. / Ident.	OH514550 / BLAL/AL/MICP/10
Procedure Followed	CP/VM-01	Range	100-1000 μ l
Environmental Condition		Least Count	1 μ l
Temperature	25 \pm 2 $^{\circ}$ C	Location	--
Rel. Hum.	50 \pm 10%		

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty	Identification No.	Traceability Cert. No.	Valid up to
Weighing Balance	0 to 220 g	0.00003 & 0.0004 g	556300	TC/6891/2020	07-12-2021

CALIBRATION RESULT

DUC Value (μ l)	Observed Value on Standard (μ l)	Error (μ l)	Average Value at 27 $^{\circ}$ C (μ l)	Expanded Uncertainty \pm (μ l)
100.0	100.23	-0.23	100.24	0.66
250.0	250.25	-0.25	250.26	0.66
500.0	500.27	-0.27	500.31	0.66
750.0	750.31	-0.31	750.37	0.66
1000.0	1000.41	-0.41	1000.48	0.66

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NABL ACCREDITED LAB
Cert. No.: CC-2298

CALIBRATION CERTIFICATE

ULR: CC229821000001543F	DISCIPLINE Thermal	Page 01 of 01
CUSTOMER'S DETAILS M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW) House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	CERTIFICATE NO.: AQCS/21061401.011 Date of Issue of Certificate: 17/06/2021 Date of Calibration: 14/06/2021 Recommended due date: 13/06/2022	

Service Request No. 210612/02 Service Request Date 12/06/2021 DUC Receipt Date 14/06/2021 DUC Condition Ok Cal. Performed At Site Procedure Followed CP/TH-08 Environmental Condition Temperature 30±10°C Rel. Hum. 50±10%	INSTRUMENT DESCRIPTION Nomenclature Digital Thermometer with sensor Make R-tek Model Multi Sr. No. / Ident. 20171238281 / BLAL/AL/THM/01 Range 2-8 °C Least Count 0.1 °C Location -
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STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty (±)	Identification No.	Traceability Certificate No.	Valid up to
PT100, 4 wire RTD with Indicator	-80 to 200 °C	0.1 to 0.15 °C	11339 /16A046131	TL/021/513.1.1	03-06-2022

CALIBRATION RESULT

Value on standard (°C)	Measurement DUC (°C)	Error (°C)	Expanded Uncertainty ± (°C)
1.98	2.1	0.12	2.5
2.75	2.9	0.15	2.5
5.03	5.2	0.17	2.5
6.90	7.1	0.20	2.5
7.66	7.9	0.24	2.5

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CALIBRATION CERTIFICATE

ULR: CC229821000001544F	DISCIPLINE Thermal	Page 01 of 01
CUSTOMER'S DETAILS M/S DR. B LAL CLINICAL LABORATORY PVT. LTD. (ALW) House No. 12, Near Ambedkar Circle, Lajpat Nagar, Alwar-301001 (Rajasthan)	CERTIFICATE NO.: Date of Issue of Certificate Date of Calibration Recommended due date	AQCS/21061401.012 17/06/2021 14/06/2021 13/06/2022

Service Request No.	210612/02	INSTRUMENT DESCRIPTION Nomenclature Digital Thermometer with sensor Make R-tek Model Multi Sr. No. / Ident. 20171238300 / BLAL/AL/THM/02 Range 2-8 °C Least Count 0.1 °C Location --
Service Request Date	12/06/2021	
DUC Receipt Date	14/06/2021	
DUC Condition	Ok	
Cal. Performed At	Site	
Procedure Followed	CP/TH-08	
Environmental Condition		
Temperature 30±10°C	Rel. Hum. 50±10%	

STANDARD EQUIPMENT USED:

Nomenclature	Range	Uncertainty (±)	Identification No.	Traceability Certificate No.	Valid up to
PT100, 4 wire RTD with Indicator	-80 to 200 °C	0.1 to 0.15 °C	11339 /16A046131	TL/021/513.1.1	03-06-2022

CALIBRATION RESULT

Value on standard (°C)	Measurement DUC (°C)	Error (°C)	Expanded Uncertainty ± (°C)
2.23	2.1	-0.13	2.5
3.24	3.1	-0.14	2.5
5.05	4.9	-0.15	2.5
7.27	7.1	-0.17	2.5
8.12	7.9	-0.22	2.5

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- Expanded uncertainty of Measurement at approximately 95 % confidence level for coverage factor k = 2 is as given above.
- The result reported in this certificate is valid at the time of and under the stated conditions of Measurement for the particular item and instrument identified above.
- This certificate shall not be reproduced, except in full, unless a written permission for the publication of an approved abstract has been obtained from the Director, Apex Quality Certification Services Pvt. Ltd. Jaipur
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Calibrated by

(V. B. Mathew)



Approved by

(R. R. Yadav)
Quality Manager