



AA CALIBRATION PVT.LTD.

CALIBRATION CERTIFICATE

5.10F-01



Certificate No. CC - 2646

Certificate No	AACPL / 05948F	Field	Mech.	Group	Volumetric	Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05948F		
Calibration Method :	Comparison Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

SI	Instrument Name	Range	Least Count	Make/SI.No	Party ID/Location
1	Micro Pipette	5 to 50 µl	0.1 µl	Gyro -----	MDC/LAB/MP - 01 Laboratory

Standard Equipments Used (Traceable to National Standard)

SI	Instrument Name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Std. Weight Box (SS)	Weightronics	Bluebox Techno	BBT/003/JAN/20	20/01/2022

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
ISO/TR - 20461:2000 (E)	Volume Measurement	(50 ± 10)%RH	(23 ± 2)°C	Laboratory

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 01C, Section No : CP - 03

Calibration Result

S. No.	Nominal Value on UUC (in µl)	Average Volume at 27 °C (in µl)	Deviation (in µl)	Uncertainty at approx 95% confidence Level and coverage factor k = 2 is ± (in µl)
1	10	10.06	-0.06	0.30
2	30	30.09	-0.09	0.30
3	50	50.15	-0.15	0.30

Note

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- 4 UUC - Unit under calibration

Approved by


 Calibrated by


 Rajesh Prasad
 (Tech. Manager)

LAB : Plot No. C18, Sector-13, First Floor, "Vasundhara Haat" Vasundhara, Ghaziabad - 201012

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Certificate No. CC - 2646

Certificate No	AACPL / 05949F	Field	Mech.	Group	Volumetric	Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05949F		
Calibration Method :	Comparison Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

Sl	Instrument Name	Range	Least Count	Make/SI.No	Party ID/Location
1	Micro Pipette	100 to 1000 µl	0.1 µl	Na 09140017	MDC/LAB/MP - 04 Laboratory

Standard Equipments Used (Traceable to National Standard)

Sl	Instrument Name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Std. Weight Box (SS)	Weightronics	Bluebox Techno	BBT/003/JAN/20	20/01/2022

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
ISO/TR - 20461:2000 (E)	Volume Measurement	(50 ± 10)%RH	(23 ± 2)°C	Laboratory

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 01C, Section No : CP - 03

Calibration Result

S. No.	Nominal Value on UUC (in µl)	Average Volume at 27 °C (in µl)	Deviation (in µl)	Uncertainty at approx 95% confidence Level and coverage factor k = 2 is ± (in µl)
1	100	100.23	-0.23	0.30
2	500	500.47	-0.47	0.30
3	1000	1000.78	-0.78	0.30

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Certificate No. CC - 2646

Certificate No	AACPL / 05956F	Field	Elec. Tech.	Group		Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05956F		
Calibration Method	Direct Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

SI	Instrument name	Range	Least Count	Make/SI No.	Party ID/Location
1	Centrifuge M/c	0 to 99 Mint	1 min.	Remi / ZBHN - 23111	MDC/LAB/CM - 01 Laboratory

Standard Equipments Used (Traceable to National Standard)

SI	Instrument name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Digital Timer Calibrator	Voltgram / -----	VTC	CC293520000001100F	03/11/2021

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration performed At
IS : 1248	Time Measurement	(50 ± 20)%RH	(25 ± 10)°C	Site

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 03, Section No : CPET - 02

Calibration Result

SI	Selected Range (In s)	Average Read. (Std.) (In s)	Average Read. (UUC) (In s)	Deviation (In s)	Uncertainty at approx 95% confidence Level and coverage factor $k = 2$ is ±
1	300	300.090	300	-0.090	34.64 s
2	1800	1800.180	1800	-0.180	34.66 s
3	3600	3600.360	3300	-300.360	34.85 s

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Certificate No. CC - 2646

Certificate No	AACPL / 05950F	Field	Mech.	Group	Volumetric	Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05950F		
Calibration Method :	Comparison Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20, Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

SI	Instrument Name	Range	Least Count	Make/SI.No	Party ID/Location
1	Micro Pipette	2 to 20 µl	0.1 µl	A NI472151	MDC/LAB/MP - 02 Laboratory

Standard Equipments Used (Traceable to National Standard)

SI	Instrument Name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Std. Weight Box (SS)	Weightronics	Bluebox Techno	BBT/003/JAN/20	20/01/2022

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
ISO/TR - 20461:2000 (E)	Volume Measurement	(50 ± 10)%RH	(23 ± 2)°C	Laboratory

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 01C, Section No : CP - 03

Calibration Result

S. No.	Nominal Value on UUC (in µl)	Average Volume at 27 °C (in µl)	Deviation (in µl)	Uncertainty at approx 95% confidence Level and coverage factor k = 2 is ± (in µl)
1	10	9.98	0.02	0.30
2	15	14.87	0.13	0.30
3	20	19.78	0.22	0.30

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Certificate No. CC - 2646

Certificate No	AACPL / 05951F	Field	Mech.	Group	Volumetric	Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05951F		
Calibration Method :	Comparison Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

SI	Instrument Name	Range	Least Count	Make/SI.No	Party ID/Location
1	Micro Pipette	20 to 200 µl	1 µl	Gyro NI472151	MDC/LAB/MP - 03 Laboratory

Standard Equipments Used (Traceable to National Standard)

SI	Instrument Name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Std. Weight Box (SS)	Weightronics	Bluebox Techno	BBT/003/JAN/20	20/01/2022

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
ISO/TR - 20461:2000 (E)	Volume Measurement	(50 ± 10)%RH	(23 ± 2)°C	Laboratory

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 01C, Section No : CP - 03

Calibration Result

S. No.	Nominal Value on UUC (in µl)	Average Volume at 27 °C (in µl)	Deviation (in µl)	Uncertainty at approx 95% confidence Level and coverage factor k = 2 is ± (in µl)
1	10	10.07	-0.07	0.30
2	100	100.26	-0.26	0.30
3	200	200.34	-0.34	0.30

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Certificate No. CC - 2646

Certificate No	AACPL / 05952F	Field	Mech.	Group	Volumetric	Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05952F		
Calibration Method :	Comparison Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

SI	Instrument Name	Range	Least Count	Make/SI.No	Party ID/Location
1	Micro Pipette	100 µl	-----	Unipette 1636	MDC/LAB/MP - 05 Laboratory

Standard Equipments Used (Traceable to National Standard)

SI	Instrument Name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Std. Weight Box (SS)	Weightronics	Bluebox Techno	BBT/003/JAN/20	20/01/2022

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
ISO/TR - 20461:2000 (E)	Volume Measurement	(50 ± 10)%RH	(23 ± 2)°C	Laboratory

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 01C, Section No : CP - 03

Calibration Result

S. No.	Nominal Value on UUC (in µl)	Average Volume at 27 °C (in µl)	Deviation (in µl)	Uncertainty at approx 95% confidence Level and coverage factor k = 2 is ± (in µl)
1	100	100.26	-0.26	0.30

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Certificate No	AACPL / 05953F	Field	Elec. Tech.	Group		Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05953F		
Calibration Method :	Direct Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

SI	Instrument Name	Range	Least Count	Make / SI.No	Party ID / Location
1	Domestic Refrigerator	2 to 8°C	1 °C	LG -----	MDC/LAB/REF - 01 Laboratory

Standard Equipments Used (Traceable to National Standard)

SI	Instrument Name	Make/SI No	Calibrated By	Cal Certificate No	Cal. Valid Upto
2	Universal Calibrator	Radix / 112004873	AACPL	AACPL/10376F	23/12/2021

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
IS : 1248	Temp. Measurement	(50 ± 20)%RH	(25 ± 10)°C	Site

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 03, Section No : CPET - 01

Set Points :- 2, 4, 6 °C

Calibration Results

SI. No.	Std. Reading on Master in °C	UUC Average Reading in °C	Deviation in °C	Uncertainty at approx 95% confidence Level and coverage factor $k = 2$ is ±
1	2.07	2	-0.07	0.64 °C
2	4.16	4	-0.16	0.64 °C
3	6.34	6	-0.34	0.64 °C

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Abhinav
Calibrated by



Approved by

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Certificate No. CC - 2646

Certificate No	AACPL / 05945F	Field	Mech.	Group	Speed	Page No.	1 of 1
SRF No & Date	210614.1	DT - 14 / 06 / 2021		ULR No.	CC2646210000 05945F		
Calibration Method :	Comparison Method			Accuracy			
Company Name	M/s Maheshwaram hospital & Resarch (P) Ltd.			Calibration Date	14.06.2021		
Address	Mahesh Diagnostic Center C/o Post Box no. 20,Deoli - Rajasthan			Cali. Due On (As Sugg. By Cust.)	13.06.2022		
				Certificate Issue Dt.	18.06.2021		
				UUC Condition	Good		

Calibration Instrument Detail

Sl	Instrument Name	Range	Least Count	Make / SI.No	Party ID / Location
1	Centrifuge M/c	0 - 6000 RPM	10 RPM	Remi ZBHN - 23111	MDC/LAB/CM - 01 Laboratory

Standard Equipments Used (Traceable to National Standard)

Sl	Instrument Name	Make / SI.No.	Calibrated By	Cal Certificate No	Cal. Valid Upto
1	Dig. Tachometer	Line Seiki / 20120427	Godrej Calibration Services	C-210218-4-1	18/02/2022

Reference Standard	Calibration Purpose	Humidity	Temperature	Calibration Performed At
IS : 12508:2013	RPM Measurement	(50 ± 15)%RH	(25 ± 10) °C	Site

Calibration Procedure : As per Calibration Procedure Manual AACPL / CP / 01B, Section No : CP - 08

Calibration Result

Sl	Calibration Gauge Value UUC (in RPM)	Master Gauge Value (in RPM)	Deviation (in RPM)	Uncertainty at approx 95% confidence Level and coverage factor $k = 2$ is \pm (in %)
1	100	100.2	-0.2	28.87
2	500	500.6	-0.6	28.87
3	1000	1000.9	-0.9	28.09
4	2000	2002.1	-2.1	28.87
5	4000	4002.6	-2.6	28.87
6	5000	5003.9	-3.9	28.87

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