
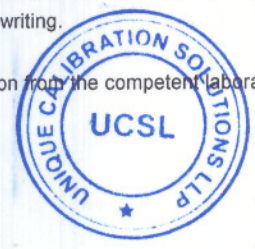


CALIBRATION CERTIFICATE				
UNIQUE LAB REPORT NO (ULR NO)		CC310223000001349F		
SRF NO.	105	CERTIFICATE NO	UCSL/05-23/105_01	
Customer Details	ICTC LAB W&C HOSPITAL KOTTAPPARAMB GH ROAD, NEAR TO PALAYAM, KOZHIKODE, KERALA - 673 001			
Device Under Calibration	CENTRIFUGE (RPM)	Equipment & Master Used For calibration		
Make / Model No.	REMI / R-8C PLUS	01. DIGITAL CONTACT & NON CONTACT TACHOMETER		
Range	0 to 6000 rpm	Make : LUTRON		
Least Count	10 rpm	Serial No. : S015034		
Instrument Id. No.	---	Certificate No. : C-220712-5-6		
Instrument Sr. No.	ZGHV-15774	Next Due Date : 15.07.2023		
Location	LAB	Calibrated By : Godrej & Boyce		
Visual Inspection	OK	Accreditation No : CC-2559		
Material Receipt Date	---			
Calibration performed At	ON SITE			
Date of Calibration	16.05.2023			
Next calibration due (As per customer request)	16.05.2024			
Calibration Certificate Issue Date	17.05.2023			
Discipline	Mechanical			
Method Used	Comparison			
ENVIRONMENTAL CONDITION				
Temperature	26.2 °C			
Relative Humidity	59%RH			
Condition Of Equipment :	Un-Loaded			
OBSERVATION RESULTS				
SL. NO.	Nominal Value on DUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At Approx.95% Confidence Level (k=2)
1.	500	500.7	0.14	0.60 rpm
2.	1000	1001.2	0.12	0.60 rpm
3.	2000	2001.0	0.05	0.60 rpm
4.	4000	4001.6	0.04	0.60 rpm
5.	6000	6001.4	0.02	0.60 rpm
Calibration Procedure Based On		: UCSL/SOP/RPM		
Decision Rule is Applied or Not		Yes	No	
			✓	
<b>NOTE :-</b>				
1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.				
2. This report should not be reproduced except in full without our prior permission in writing.				
3. Calibration certificate without signature are not valid.				
4. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.				
5. DUC : Device under calibration				
6. This calibration certificate relates only to the above DUC.				
Calibrated By 				
		Issued / Approved By (APPU K MANI) Technical Director		





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An ISO/IEC-17025:2017 / ACCREDITED BY NABL

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E-mail: info@uniquecalibration.co.in, website: www.uniquecalibration.co.in



CALIBRATION CERTIFICATE				
UNIQUE LAB REPORT NO (ULR NO)		CC310223000001350F		
SRF NO.	105	CERTIFICATE NO	UCSL/05-23/105_02	
Customer Details :		ICTC LAB W&C HOSPITAL KOTTAPPARAMB GH ROAD, NEAR TO PALAYAM, KOZHICODE, KERALA - 673 001		
Device Under Calibration		CENTRIFUGE (RPM)		
Make / Model No.	ROTEK / RMC-4		Equipment & Master Used For calibration  01. DIGITAL CONTACT & NON CONTACT TACHOMETER Make : LUTRON Serial No. : S015034 Certificate No. : C-220712-5-6 Next Due Date : 15.07.2023 Calibrated By : Godrej & Boyce Accreditation No : CC-2559	
Range	0 to 5000 rpm			
Least Count	100 rpm			
Instrument Id. No.	---			
Instrument Sr. No.	06343			
Location	LAB			
Visual Inspection	OK			
Material Receipt Date	---			
Calibration performed At	ON SITE			
Date of Calibration	16.05.2023			
Next calibration due (As per customer request)	16.05.2024			
Calibration Certificate Issue Date	17.05.2023			
Discipline	Mechanical			
Method Used	Comparison			
<b>ENVIRONMENTAL CONDITION</b>				
Temperature	25.5 °C			
Relative Humidity	58%RH			
Condition Of Equipment :	Un-Loaded			
<b>OBSERVATION RESULTS</b>				
SL. NO.	Nominal Value on DUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At Approx.95% Confidence Level (k=2)
1.	500	500.3	0.06	5.78 rpm
2.	1000	1001.0	0.10	2.89 rpm
3.	2000	2002.0	0.10	1.44 rpm
4.	3000	3001.8	0.06	0.96 rpm
5.	4000	4001.6	0.04	0.72 rpm
Calibration Procedure Based On		: UCSL/SOP/RPM		
Decision Rule Is Applied or Not			Yes	No
				✓
<b>NOTE :-</b>				
1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.				
2. This report should not be reproduced except in full without our prior permission in writing.				
3. Calibration certificate without signature are not valid.				
4. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.				
5. DUC : Device under calibration				
6. This calibration certificate relates only to the above DUC.				
Calibrated By				
		Issued / Approved By (ARBU KMANI) Technical Director		





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E-mail: info@uniquecalibration.co.in, website: www.uniquecalibration.co.in



CC-3102

CALIBRATION CERTIFICATE											
ULR NO :	CC31022300001351F					CERTIFICATE No. :	UCSL/05-23/105_03				
Customer Name & Address:						Instrument receipt Date			15.05.2023		
ICTC LAB						SRF No.			105		
W&C HOSPITAL						Calibration Date			16.05.2023		
KOTTAPPARAMB GH ROAD, NEAR TO PALAYAM,						Next calibration due			16.05.2024		
KOZHIKODE, KERALA - 673 001						(As per customer request)					
						Certificate Issue date			17.05.2023		
Identification on DUC (Device Under Calibration)											
Instrument Name		MICROPIPETTE				Make		LABOPETTE			
Range		20-200 µl				Model		---			
Least count		1 µl				Instrument Condition		OK			
Serial No.		08041532				Calibration Performed at		Mass & Volume Lab			
ID No.		KSACS/ICTC/WC/021				Location		LAB			
Environmental Condition			Avg. Temperature (°C)			Avg. RH (%)			Avg. Atmospheric Pressure (hpa)		
			23.4			55			1010		
Equipment & Master Used For calibration											
Instrument Used		Traceability	ID No:		Certificate No		Valid Upto	Sr No.		Accreditation No	
Weighing Balance		UCSL	UCSL-WB-01		UCSL/10-22/329_01		18.10.2023	0037905909		CC-3102	
Method Used :						Gravimetric method					
Calibration Reference Standard						Discipline & Category : Mechanical - Volume					
ISO-8655-6 & ISO /TR 20461						Calibration Procedure					
						UCSL/SOP/01-MPT					
CALIBRATION RESULTS :-											
1. Lower Volume 20 µl											
1	2	3	4	5	6	7	8	9	10	Mean Volume V	
20.30	20.29	20.27	20.26	20.26	20.32	20.41	20.37	20.34	20.31	20.32	
Systematic Error es µl :				-0.32		Error Limits (± 1.6 µl)		Random Error in sr µl :		0.05	
Systematic Error es in % :				-1.58		(± 8.0 %)		Random Error in Cv in % :		0.24	
Random Error in sr µl :		0.05		Error Limits (± 0.6 µl)		Random Error in Cv in % :		0.24		Error Limits (± 3.0 %)	
Random Error in Cv in % :		0.24		(± 0.6 µl)		Random Error in Cv in % :		0.11		(± 0.6 %)	
2. Middle Volume 100 µl											
1	2	3	4	5	6	7	8	9	10	Mean Volume V	
100.61	100.59	100.71	100.58	100.59	100.67	100.79	100.92	100.61	100.52	100.66	
Systematic Error es µl :				-0.66		Error Limits (± 1.6 µl)		Random Error in sr µl :		0.12	
Systematic Error es in % :				-0.66		(± 1.6 %)		Random Error in Cv in % :		0.11	
Random Error in sr µl :		0.12		Error Limits (± 0.6 µl)		Random Error in Cv in % :		0.11		Error Limits (± 0.6 %)	
Random Error in Cv in % :		0.11		(± 0.6 µl)		Random Error in Cv in % :		0.07		(± 0.3 %)	
1. Nominal Volume 200 µl											
1	2	3	4	5	6	7	8	9	10	Mean Volume V	
200.46	200.24	200.15	200.52	200.35	200.25	200.43	200.41	200.45	200.61	200.39	
Systematic Error es µl :				-0.39		Error Limits (± 1.6 µl)		Random Error in sr µl :		0.14	
Systematic Error es in % :				-0.19		(± 0.8 %)		Random Error in Cv in % :		0.07	
Random Error in sr µl :		0.14		Error Limits (± 0.6 µl)		Random Error in Cv in % :		0.07		Error Limits (± 0.3 %)	
Random Error in Cv in % :		0.07		(± 0.6 µl)		Random Error in Cv in % :		0.07		(± 0.3 %)	
Decision Rule is Applied or Not										Yes	
										No	
										✓	
Conclusion /Remarks:											
The Reported Uncertainty from 20 µl to 100 µl is 0.32µl and at 200 µl is 1.05 µl at ,Coverage Factor K=2, which corresponds to a confidence level at approximately 95 %											
1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.											
2. This report is valid for Scientific & Industrial Purpose Only											
3. This report should not be reproduced except in full without our prior permission in writing.											
4. Calibration certificate without signature are not valid.											
5. This Calibration Certificate relates only to the above DUC											
6. DUC : Device under calibration											
7. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.											
Calibrated by											
						Issued / Approved By (APPU K MANI) Technical Director					



CALIBRATION CERTIFICATE															
ULR NO :		CC310223000001352F				CERTIFICATE No. :		UCSL/05-23/105_04							
Customer Name & Address:					Instrument receipt Date			15.05.2023							
ICTC LAB W&C HOSPITAL KOTTAPPARAMB GH ROAD, NEAR TO PALAYAM, KOZHIKODE, KERALA - 673 001					SRF No.			105							
					Calibration Date			16.05.2023							
					Next calibration due (As per customer request)			16.05.2024							
					Certificate Issue date			17.05.2023							
Identification on DUC (Device Under Calibration)															
Instrument Name		Micropipette			Make		LABOPETTE								
Range		500 µl			Model		---								
Least count		---			Instrument Condition		OK								
Serial No.		---			Calibration Performed at		Mass & Volume Lab								
ID No.		MP-01			Location		LAB								
Environmental Condition				Avg. Temperature (°C)		Avg. RH (%)		Avg. Atmospheric Pressure (hpa)							
				23.8		54		1010							
Equipment & Master Used For calibration															
Instrument Used		Traceability	ID No:	Certificate No		Valid Upto	Sr No.		Accreditation No						
Weighing Balance		UCSL	UCSL-WB-01	UCSL/10-22/329_01		18.10.2023	0037905909		CC-3102						
Note: All Master instruments used for calibration are traceable to National /International Standard															
Method Used :				Gravimetric method				Discipline & Category :				Mechanical -Volume			
Calibration Reference Standard						Calibration Procedure									
ISO-8655-6 & ISO /TR 20461						UCSL/SOP/01-MPT									
CALIBRATION RESULTS :-															
Nominal Volume		500 µl													
1	2	3	4	5	6	7	8	9	10	Mean Volume V					
501.41	501.49	501.67	501.61	501.56	501.54	501.49	501.44	501.62	501.66	501.55					
Systematic Error es µl :				-1.55		(± 4.0 µl)		Random Error in sr µl :		0.09		Error Limits (± 1.5 µl)			
Systematic Error es in % :				-0.31		(± 0.8 %)		Random Error in Cv in % :		0.02		Error Limits (± 0.3 %)			
Decision Rule is Applied or Not								Yes		No					
										✓					
Conclusion /Remarks:															
The Reported Uncertainty of <u>5.00 µl</u> is <u>1.05 µl</u> at ,Coverage Factor K=2, which corresponds to a confidence level at 95 %															
1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.															
2. This report is valid for Scientific & Industrial Purpose Only															
3. This report should not be reproduced except in full without our prior permission in writing.															
4. Calibration certificate without signature are not valid.															
5. This Calibration Certificate relates only to the above DUC															
6. DUC : Device under calibration															
7. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.															
Calibrated by 								Issued / Approved By							
								(APPU K MANI)							
								Technical Director							





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CALIBRATION CERTIFICATE				
UNIQUE LAB REPORT NO (ULR NO)		CC310223000001353F		
SRF NO.	105	CERTIFICATE NO	UCSL/05-23/105_05	
Customer Details	ICTC LAB W&C HOSPITAL KOTTAPPARAMB GH ROAD, NEAR TO PALAYAM, KOZHICODE, KERALA - 673 001			
Device Under Calibration	VDRL ROTATOR (RPM)	Equipment & Master Used For calibration		
Make / Model No.	ROTEKPLUS / PVD-ROI	01. DIGITAL CONTACT & NON CONTACT TACHOMETER		
Range	180 rpm	Make	: LUTRON	
Least Count	---	Serial No.	: S015034	
Instrument Id. No.	---	Certificate No.	: C-220712-5-6	
Instrument Sr. No.	06343	Next Due Date	: 15.07.2023	
Location	LAB	Calibrated By	: Godrej & Boyce	
Visual Inspection	OK	Accreditation No	: CC-2559	
Material Receipt Date	---			
Calibration performed At	ON SITE			
Date of Calibration	16.05.2023			
Next calibration due (As per customer request)	16.05.2024			
Calibration Certificate Issue Date	17.05.2023			
Discipline	Mechanical			
Method Used	Comparison			
ENVIRONMENTAL CONDITION				
Temperature	25.9 °C			
Relative Humidity	59%RH			
Condition Of Equipment :	Un-Loaded			
OBSERVATION RESULTS				
SL. NO.	Nominal Value on DUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At Approx.95% Confidence Level (k=2)
1.	180	180.3	0.16	0.60 rpm
Calibration Procedure Based On		: UCSL/SOP/RPM		
Decision Rule Is Applied or Not			Yes	No
				✓
<b>NOTE :-</b>				
1. The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.				
2. This report should not be reproduced except in full without our prior permission in writing.				
3. Calibration certificate without signature are not valid.				
4. All the measurements are traceable to SI units through unbroken chain of calibration from the competent laboratories as per ISO/IEC/17025 standard requirements.				
5. DUC : Device under calibration				
6. This calibration certificate relates only to the above DUC.				
Calibrated By			 Issued / Approved By (APPUK MANI) Technical Director	

