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NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

ULR No :	**CC310220000001055F**	**CERTIFICATE No. :**	**UCSL/11-20/092_01**
Customer Name & Address:		Isntrument receipt Date	24.11.2020
M/s MORRIS MATHIAS HOSPITAL		SRF No.	092
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,		Calibration Date	25.11.2020
TAMIL NADU-629001		Next calibration date (Suggested By Customer)	25.11.2021
		Certificate Issue date	25.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	BIOHIT
Range	500 µl	Model	--
Least count		Instrument Condition	OK
Serial No.	17579636	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/3-006	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.4	53	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
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 ∇
498.83	496.00	496.39	499.07	498.90	499.72	499.22	498.33	499.55	499.78	498.58

		Error Limits			Error Limits
Systamatic Error es µl :	1.42	(± 4.0 µl)	Random Error in sr µl :	1.33	(± 1.5 µl)
Systamatic Error es in % :	0.28	(± 0.8 %)	Random Error in Cv in % :	0.27	(± 0.3 %)

Conclusion /Remarks:

The Reported Uncertainity of 500 µl is 1.05 µl at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %

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5. UUC : Unit under calibration

Calibrated by

Issued / Approved By
(MANU MATHEW)
(Technical Manager)

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CALIBRATION CERTIFICATE

ULR No :	**CC310220000001056F**	**CERTIFICATE No. :**	**UCSL/11-20/092_02**
Customer Name & Address:		Isntrument receipt Date	24.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	092
		Calibration Date	25.11.2020
		Next calibration date (Suggested By Customer)	25.11.2021
		Certificate Issue date	25.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	BIOHIT
Range	200 µl	Model	--
Least count		Instrument Condition	OK
Serial No.	12567664	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/2-005	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.4	52	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

Nominal Volume **200 µl**

1	2	3	4	5	6	7	8	9	10	Mean Volume ∇
201.04	200.60	200.88	200.98	201.59	200.81	200.94	200.76	200.90	200.66	200.92

		Error Limits			Error Limits
Systamatic Error es µl :	-0.92	(± 1.6 µl)	Random Error in sr µl :	0.27	(± 0.6 µl)
Systamatic Error es in % :	-0.46	(± 0.8 %)	Random Error in Cv in % :	0.14	(± 0.3 %)

Conclusion /Remarks:

The Reported Uncertainity of 200 µl is 1.05 µl at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %

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CALIBRATION CERTIFICATE

ULR No :	CC310220000001057F	CERTIFICATE No. :	UCSL/11-20/092_03
Customer Name & Address:		Isntrument receipt Date	24.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	092
		Calibration Date	25.11.2020
		Next calibration date (Suggested By Customer)	25.11.2021
		Certificate Issue date	25.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	BIOHIT
Range	100 µl	Model	--
Least count		Instrument Condition	OK
Serial No.	12648969	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/1-004	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.3	52	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	Calibration Procedure
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

Nominal Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
99.91	100.20	99.70	99.94	99.78	99.73	99.97	99.84	99.92	99.99	99.89

		Error Limits			Error Limits
Systamatic Error es µl :	0.11	(± 0.8 µl)	Random Error in sr µl :	0.15	(± 0.3µl)
Systamatic Error es in % :	0.11	(± 0.8 %)	Random Error in Cv in % :	0.15	(± 0.3 %)

Conclusion /Remarks:

*The Reported Uncertainity of **100 µl is 0.32 µl** at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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CALIBRATION CERTIFICATE

ULR No :	**CC310220000001058F**	**CERTIFICATE No. :**	**UCSL/11-20/092_04**
Customer Name & Address:		Isntrument receipt Date	24.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	092
		Calibration Date	25.11.2020
		Next calibration date (Suggested By Customer)	25.11.2021
		Certificate Issue date	25.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	DRAGON LAB
Range	10 µl	Model	--
Least count		Instrument Condition	OK
Serial No.	YE175AB0091205	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/1-002	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.3	52	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

Nominal Volume 10 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
10.02	10.20	10.12	10.17	10.10	10.14	10.19	10.00	10.13	9.98	10.11

		Error Limits			Error Limits
Systamatic Error es µl :	-0.11	(± 0.12 µl)	Random Error in sr µl :	0.08	(± 0.08µl)
Systamatic Error es in % :	-1.09	(± 1.2 %)	Random Error in Cv in % :	0.79	(± 0.8 %)

Conclusion /Remarks:

*The Reported Uncertainity of **10 µl is 0.32 µl** at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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CALIBRATION CERTIFICATE

ULR No :	**CC310220000001059F**	**CERTIFICATE No. :**	**UCSL/11-20/092_05**
Customer Name & Address:		Isntrument receipt Date	24.11.2020
M/s MORRIS MATHIAS HOSPITAL		SRF No.	092
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,		Calibration Date	25.11.2020
TAMIL NADU-629001		Next calibration date (Suggested By Customer)	25.11.2021
		Certificate Issue date	25.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	DRAGON LAB
Range	10-100 µl	Model	--
Least count	1 µl	Instrument Condition	OK
Serial No.	YE198ALO497701	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/2-003	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.2	50	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

1. Lower Volume 10 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
10.17	10.51	10.43	10.07	10.45	10.26	10.18	10.11	10.21	10.08	10.25

		Error Limits			Error Limits
Systamatic Error es µl :	-0.25	(± 0.8 µl)	Random Error in sr µl :	0.16	(± 0.3 µl)
Systamatic Error es in % :	-2.45	(± 8.0 %)	Random Error in Cv in % :	1.55	(± 3.0 %)

2. Middle Volume 50 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
50.02	50.29	50.42	50.63	50.55	50.51	50.56	50.14	50.08	50.12	50.33

		Error Limits			Error Limits
Systamatic Error es µl :	-0.33	(± 0.8 µl)	Random Error in sr µl :	0.23	(± 0.3 µl)
Systamatic Error es in % :	-0.67	(± 1.6 %)	Random Error in Cv in % :	0.46	(± 0.6 %)

3. Nominal Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
100.19	100.88	100.21	100.54	100.69	100.58	100.40	100.34	100.74	100.80	100.54

		Error Limits			Error Limits
Systamatic Error es µl :	-0.54	(± 0.8 µl)	Random Error in sr µl :	0.25	(± 0.3 µl)
Systamatic Error es in % :	-0.54	(± 0.8 %)	Random Error in Cv in % :	0.24	(± 0.3 %)

Conclusion /Remarks:

*The Reported Uncertainity from **10µl to 100 µl is 0.32µl** at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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(Technical Manager)

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CALIBRATION CERTIFICATE

ULR No :	CC310220000001037F	CERTIFICATE No. :	UCSL/11-20/088_01
Customer Name & Address:		Isntrument receipt Date	09.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	088
		Calibration Date	10.11.2020
		Next calibration date (Suggested By Customer)	10.11.2021
		Certificate Issue date	14.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	Biohit
Range	5-50 µl	Model	--
Least count	0.5 µl	Instrument Condition	OK
Serial No.	14627916	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/5-008	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.3	51	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	Calibration Procedure
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

1. Lower Volume 10 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
9.46	9.55	9.50	9.47	9.61	9.73	9.64	9.49	9.61	9.56	9.56

		Error Limits			Error Limits
Systamatic Error es µl :	0.44	(± 0.5 µl)	Random Error in sr µl :	0.09	(± 0.2 µl)
Systamatic Error es in % :	4.36	(± 5.0 %)	Random Error in Cv in % :	0.91	(± 2.0 %)

2. Middle Volume 25 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
24.63	24.58	24.61	24.57	24.64	24.72	24.63	24.54	24.60	24.66	24.62

		Error Limits			Error Limits
Systamatic Error es µl :	0.38	(± 0.5 µl)	Random Error in sr µl :	0.05	(± 0.2 µl)
Systamatic Error es in % :	1.53	(± 2.0 %)	Random Error in Cv in % :	0.21	(± 0.8 %)

3. Nominal Volume 50 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
49.88	49.59	49.66	50.02	50.21	49.83	49.84	49.89	50.05	49.70	49.87

		Error Limits			Error Limits
Systamatic Error es µl :	0.13	(± 0.5 µl)	Random Error in sr µl :	0.19	(± 0.2 µl)
Systamatic Error es in % :	0.26	(± 1.0 %)	Random Error in Cv in % :	0.38	(± 0.4 %)

Conclusion /Remarks:

The Reported Uncertainity from ***10µl to 50 µl is 0.32µl*** *at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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CALIBRATION CERTIFICATE

ULR No :	CC310220000001038F	**CERTIFICATE No. :**	UCSL/11-20/088_02
Customer Name & Address:		Isntrument receipt Date	09.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	088
		Calibration Date	10.11.2020
		Next calibration date (Suggested By Customer)	10.11.2021
		Certificate Issue date	14.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	MICROPET
Range	1000 µl	Model	--
Least count		Instrument Condition	OK
Serial No.	--	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/1-009	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.1	51	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

Nominal Volume 1000 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume ∇
1007.93	1006.93	1006.23	1008.74	1008.24	1006.53	1007.33	1007.63	1006.83	1006.33	1007.27

		Error Limits			Error Limits
Systamatic Error es µl :	-7.27	(± 8.0 µl)	Random Error in sr µl :	0.85	(± 3.0 µl)
Systamatic Error es in % :	-0.73	(± 0.8 %)	Random Error in Cv in % :	0.08	(± 0.3 %)

Conclusion /Remarks:

*The Reported Uncertainity of **1000 µl is 1.05 µl** at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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CALIBRATION CERTIFICATE

ULR No :	**CC310220000001039F**	**CERTIFICATE No. :**	**UCSL/11-20/088_03**
Customer Name & Address:		Isntrument receipt Date	09.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	087
		Calibration Date	10.11.2020
		Next calibration date (Suggested By Customer)	10.11.2021
		Certificate Issue date	14.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	SARTORIUS
Range	1000 µl	Model	--
Least count		Instrument Condition	OK
Serial No.	16589482	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/1-001	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	24.0	53	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	**Calibration Procedure**
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

Nominal Volume 1000 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
1005.35	1009.06	1008.36	1009.57	1006.25	1006.55	1005.45	1008.46	1006.75	1005.15	1007.10

		Error Limits			Error Limits
Systamatic Error es µl :	-7.10	(± 8.0 µl)	Random Error in sr µl :	1.64	(± 3.0 µl)
Systamatic Error es in % :	-0.71	(± 0.8 %)	Random Error in Cv in % :	0.16	(± 0.3 %)

Conclusion /Remarks:

The Reported Uncertainity of ***1000 µl is 1.05 µl*** *at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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CALIBRATION CERTIFICATE

ULR No :	CC310220000001040F	CERTIFICATE No. :	UCSL/11-20/88_04
Customer Name & Address:		Isntrument receipt Date	09.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	088
		Calibration Date	10.11.2020
		Next calibration date (Suggested By Customer)	10.11.2021
		Certificate Issue date	14.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	Vertex
Range	20 -200 µl	Model	---
Least count	1 µl	Instrument Condition	OK
Serial No.	021500899	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/1-010	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	23.9	53	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used :	Gravimetric method
Calibration Reference Standard	Calibration Procedure
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

1. Lower Volume 20 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
20.76	20.78	20.36	20.89	20.64	20.48	20.50	20.72	20.58	20.64	20.64

		Error Limits			Error Limits
Systamatic Error es µl :	-0.64	(± 1.6µl)	Random Error in sr µl :	0.16	(± 0.6µl)
Systamatic Error es in % :	-3.18	(± 8.0 %)	Random Error in Cv in % :	0.78	(± 3.0 %)

2. Middle Volume 100 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
100.51	100.40	100.40	100.01	99.68	100.44	99.77	100.25	100.31	99.72	100.15

		Error Limits			Error Limits
Systamatic Error es µl :	-0.15	(± 1.6µl)	Random Error in sr µl :	0.33	(± 0.6 µl)
Systamatic Error es in % :	-0.15	(± 1.6 %)	Random Error in Cv in % :	0.32	(± 0.6 %)

3. Nominal Volume 200 µl

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
200.73	200.02	199.85	199.96	201.13	200.59	200.98	200.89	200.09	200.26	200.45

		Error Limits			Error Limits
Systamatic Error es µl :	-0.45	(± 1.6 µl)	Random Error in sr µl :	0.47	(± 0.6 µl)
Systamatic Error es in % :	-0.23	(± 0.8 %)	Random Error in Cv in % :	0.23	(± 0.3 %)

Conclusion /Remarks:

The Reported Uncertainity from ***20µl to 100 µl is ± 0.32µl & from 100µl to 200µl is 1.05 µl*** *at ,Coverage Factor K=2,which corresponds to a confidence level at 95 %*

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. UUC : Unit under calibration

Calibrated by

Issued / Approved By
(MANU MATHEW)
(Technical Manager)

UNIQUE CALIBRATION SOLUTIONS LLP

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Tel: 0484-4858563, 0484 - 7966984, 9971328563, 9061728563

E-mail: sales@uniquecalibration.com, website: www.uniquecalibration.com

NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

ULR No :	**CC310220000001041F**	**CERTIFICATE No. :**	**UCSL/11-20/088_05**
Customer Name & Address:		Isntrument receipt Date	09.11.2020
M/s MORRIS MATHIAS HOSPITAL 355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL, TAMIL NADU-629001		SRF No.	088
		Calibration Date	10.11.2020
		Next calibration date (Suggested By Customer)	10.11.2021
		Certificate Issue date	14.11.2020

Indentification on UUC (Unit Under Calibration)

Instrument Name	Micropipette	Make	BIOHIT
Range	20 µl	Model	PROLINE
Least count	--	Instrument Condition	OK
Serial No.	12547303	Calibration Performed at	Mass & Volume Lab
ID No.	MMH/LAB/PIP/4-007	Location	Lab

Environmental Condition	Avg.Temperature (°C)	Avg.RH (%)	Avg.Atmospheric Pressure (hpa)
	23.8	51	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/10-20/085_01	30.10.2021	0037905909	CC-3102

Note: All Master instruments used for calibration are traceable to National /International Standard

Method Used : Gravimetric method

Calibration Reference Standard	Calibration Procedure
ISO-8655-6 & ISO /TR 20461	UCSL/SOP/01-MPT

CALIBRATION RESULTS :-

1. Lower Volume **20 µl**

1	2	3	4	5	6	7	8	9	10	Mean Volume $\bar{V}$
20.29	20.17	20.12	20.10	20.04	20.30	20.23	20.29	20.10	20.09	20.17

		Error Limits			Error Limits
Systamatic Error es µl :	-0.17	(± 0.2 µl)	Random Error in sr µl :	0.10	(± 0.1 µl)
Systamatic Error es in % :	-0.86	(± 1.0 %)	Random Error in Cv in % :	0.48	(± 0.5 %)

Conclusion /Remarks:

The Reported Uncertainity of 2 0µl 0.32µl 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.
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4. Calibration certificate without signature are not valid.
5. UUC : Unit under calibration

Calibrated by

Issued / Approved By
(MANU MATHEW)
(Technical Manager)

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Tel: 0484-4858563, 0484 - 7966984, 9971328563, 9061728563

E-mail: sales@uniquecalibration.com, website: www.uniquecalibration.com

NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

UNIQUE LAB REORT NO(ULR NO) :		CC310220000001042F	
SRF No. :	088	Certificate No :	UCSL/11-20/088_06

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Gauge For Calibration	CENTRIFUGE(RPM)
Make / Model No.	REMI
Range	0 to 3500 rpm
Least Count	--
Instrument Id. No.	MMH/BCF-1/014
Instrument Sr. No.	--
Location	PARAPSYCHOLOGY
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ONSITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Calibration Certficate Issue Date	14.11.2020
ENVIRONMENTAL CONDITION	
Temperature	(25 ± 2)°C
Relative Humidity	(50 ± 20)%RH

Equipment & Master Used For calibration
01. DIGITAL TACHO METER (NON-CONTACT) Make : LUTRON Model No. : DT -2234 C Certificate No. : PPL/M/1352/1 Next Due Date : 23.11.2020 Traceability : Pascal Accreditation No : CC-2899

Condition Of Equipment :	Un-Loaded

OBSERVATION RESULTS

SL. NO.	Nominal Value on UUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At 95% Confidence Level (k=2)
1.	700	700.6	0.09	0.46 % rdg
2.	1400	1400.6	0.04	0.46 % rdg
3.	2100	2101.2	0.06	0.46 % rdg
4.	2800	2801.4	0.05	0.46 % rdg
5.	3500	3501.6	0.05	0.46 % rdg

Calibration Procedure Based On : *UCSL/SOP/01-RPM*

NOTE : -

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4. All our certificates are Traceable to National standard..
5. UUC : Unit under calibration , GUT : Gauge under testing .

Calibrated By

Issued / Approved By
(MANU MATHEW)
Technical Manager

UNIQUE CALIBRATION SOLUTIONS LLP

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NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

UNIQUE LAB REORT NO(ULR NO) :		CC310220000001043F	
SRF No. :	088	Certificate No :	UCSL/11-20/088_07

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Gauge For Calibration	CENTRIFUGE(RPM)
Make / Model No.	ELECTRA
Range	100 to 4000 rpm
Least Count	1rpm
Instrument Id. No.	MMH/LAB CEN-2/022
Instrument Sr. No.	2015
Location	BIOCHEMISTRY
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ONSITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Calibration Certficate Issue Date	14.11.2020
ENVIRONMENTAL CONDITION	
Temperature	(25 ± 2)^{0}C
Relative Humidity	(50 ± 20)%RH

Equipment & Master Used For calibration
01. DIGITAL TACHO METER (NON-CONTACT) Make : LUTRON Model No. : DT -2234 C Certificate No. : PPL/M/1352/1 Next Due Date : 23.11.2020 Traceability : Pascal Accreditation No : CC-2899

Condition Of Equipment :	Un-Loaded

OBSERVATION RESULTS

SL. NO.	Nominal Value on UUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At 95% Confidence Level (k=2)
1.	100	100.1	0.12	1.35 % rdg
2.	500	500.4	0.08	0.46 % rdg
3.	1000	1000.8	0.08	0.46 % rdg
4.	2500	2502.6	0.10	0.46 % rdg
5.	4000	4003.8	0.10	0.46 % rdg

Calibration Procedure Based On	*: UCSL/SOP/01-RPM*

NOTE : -

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CALIBRATION CERTIFICATE

UNIQUE LAB REORT NO(ULR NO) :		CC310220000001044F	
SRF No. :	088	Certificate No :	UCSL/11-20/088_08

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Gauge For Calibration	CENTRIFUGE(RPM)
Make / Model No.	EURO
Range	100 to 4000 rpm
Least Count	1rpm
Instrument Id. No.	MMH/LAB CEN-3/005
Instrument Sr. No.	201908113-12
Location	BIOCHEMISTRY
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ONSITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Calibration Certficate Issue Date	14.11.2020
ENVIRONMENTAL CONDITION	
Temperature	(25 ± 2)°C
Relative Humidity	(50 ± 20)%RH

Equipment & Master Used For calibration

01. DIGITAL TACHO METER (NON-CONTACT)
Make : LUTRON
Model No. : DT -2234 C
Certificate No. : PPL/M/1352/1
Next Due Date : 23.11.2020
Traceability : Pascal
Accreditation No : CC-2899

Condition Of Equipment :	Un-Loaded

OBSERVATION RESULTS

SL. NO.	Nominal Value on UUC (rpm)	Observed Mean Value on MASTER (rpm)	% Error of Reading (±)	± Expanded Uncertainty At 95% Confidence Level (k=2)
1.	100	100.0	0.04	1.35 % rdg
2.	500	500.6	0.13	0.46 % rdg
3.	1000	1001.2	0.12	0.46 % rdg
4.	2500	2502.8	0.11	0.46 % rdg
5.	4000	4004.4	0.11	0.46 % rdg

Calibration Procedure Based On : *UCSL/SOP/01-RPM*

NOTE : -

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5. UUC : Unit under calibration , GUT : Gauge under testing .

Calibrated By

Issued / Approved By
(MANU MATHEW)
Technical Manager

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CALIBRATION CERTIFICATE

UNIQUE LAB REPORT NO(ULR NO) :	CC310220000001045F		
SRF NO. :	088	Certificate No :	UCSL/11-20/088_09

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Nomenclature	TEMPERATURE INDICATOR OF REFRIGERATOR
Make/Model	WHIRLPOOL
Range	0 to 8 °C
Least Count	0.1 °C
Instrument Id. No.	MMH/REF/002
Instrument Sr. No.	--
Location	BIOCHEMISTRY LAB
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ON SITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Certificate Issue Date	14.11.2020

ENVIRONMENTAL CONDITION	
Temperature	(25 ± 5)°C
Relative Humidity	(60 ± 15)%RH

Equipment & Master Used For Calibration

01. RTD sensor 4 WIRE
Make : KELVIN INSTRUMENTS&DEVICES
Sr. No. : 20021703
ULR No. : CC232620000001578F
Next Due Date : 10-07-2021
Traceability : STIC

02. 6.5 DIGITAL MULTIMETER
Make : FLUKE
Serial No. : 8845A
Certificate No. : TSC/20-21/2211-1
Next Due Date : 09-07-2021
Traceability : TRANSCAL

OBSERVATION RESULTS

SL NO.	NOMINAL VALUE (UUC) (°C)	OBSERVED VALUE (MASTER) (°C) / (Ω)	(±) ERROR (°C)	± Expanded Uncertainty At 95% Confidence Level (k=2) (°C)
1	1.0	1.05 / 100.390	-0.05	0.60
2	2.0	2.09 / 100.780	-0.09	0.60
3	5.0	5.11 / 101.989	-0.11	0.60
4	6.0	6.10 / 102.379	-0.10	0.60
5	8.0	8.15 / 103.159	-0.15	0.60

Calibration Procedure Based On :UCSL/SOP/01 -T (ITS-90)

NOTE : -

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5. UUC : Unit under consideration , GUT : Gauge under testing .

Calibrated By
F02(5.10/01-T)

Issued / Approved By
(MANU MATHEW)
Technical Manager

Laboratory : 5/D3, EK Appartments, Model engineering college road Thrikkakara, Edappally, Cochin, Kerala-682021
Registered Office : Plot No. 611-P, Sector - 38, Gurgaon Haryana - 122001

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NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

UNIQUE LAB REPORT NO(ULR NO) :	CC310220000001046F		
SRF NO. :	088	Certificate No :	UCSL/11-20/088_10

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Nomenclature	**TEMPERATURE INDICATOR OF REFRIGERATOR**
Make/Model	WHIRLPOOL
Range	0 to 8 °C
Least Count	0.1 °C
Instrument Id. No.	MMH/REF/001
Instrument Sr. No.	--
Location	BIOCHEMISTRY LAB
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ON SITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Certificate Issue Date	14.11.2020
ENVIRONMENTAL CONDITION	
Temperature	(25 ± 5)^{0}C
Relative Humidity	(60 ± 15)%RH

Equipment & Master Used For Calibration

01. RTD sensor 4 WIRE
Make : KELVIN INSTRUMENTS&DEVICES
Sr. No. : 20021703
ULR No. : CC232620000001578F
Next Due Date : 10-07-2021
Traceability : STIC

02. 6.5 DIGITAL MULTIMETER
Make : FLUKE
Serial No. : 8845A
Certificate No. : TSC/20-21/2211-1
Next Due Date : 09-07-2021
Traceability : TRANSCAL

OBSERVATION RESULTS

SL NO.	NOMINAL VALUE (UUC) (°C)	OBSERVED VALUE (MASTER) (^{0}C) / (Ω)	(±) ERROR (^{0}C)	± Expanded Uncertainty At 95% Confidence Level (k=2) (^{0}C)
1	1.0	1.08 / 100.390	-0.08	0.60
2	2.0	2.06 / 100.780	-0.06	0.60
3	5.0	5.10 / 101.989	-0.10	0.60
4	6.0	6.13 / 102.379	-0.13	0.60
5	8.0	8.17 / 103.159	-0.17	0.60

Calibration Procedure Based On **:UCSL/SOP/01 -T (ITS-90)**

NOTE : -

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4. All our certificates are Traceable to National standard..
5. UUC : Unit under consideration , GUT : Gauge under testing .

Calibrated By
F02(5.10/01-T)

Issued / Approved By
(MANU MATHEW)
Technical Manager

Laboratory : 5/D3, EK Appartments, Model engineering college road Thrikkakara, Edappally, Cochin, Kerala-682021
Registered Office : Plot No. 611-P, Sector - 38, Gurgaon Haryana - 122001

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NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

UNIQUE LAB REPORT NO(ULR NO) :	CC310220000001047F		
SRF NO. :	088	Certificate No :	UCSL/11-20/088_11

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Nomenclature	**TEMPERATURE INDICATOR OF REFRIGERATOR**
Make/Model	PENPOL
Range	0 to 6°C
Least Count	1 °C
Instrument Id. No.	MMH/REF/003
Instrument Sr. No.	--
Location	BIOCHEMISTRY LAB
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ON SITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Certificate Issue Date	14.11.2020
ENVIRONMENTAL CONDITION	
Temperature	(25 ± 5)^{0}C
Relative Humidity	(60 ± 15)%RH

Equipment & Master Used For Calibration

01. RTD sensor 4 WIRE
Make : KELVIN INSTRUMENTS&DEVICES
Sr. No. : 20021703
ULR No. : CC232620000001578F
Next Due Date : 10-07-2021
Traceability : STIC

02. 6.5 DIGITAL MULTIMETER
Make : FLUKE
Serial No. : 8845A
Certificate No. : TSC/20-21/2211-1
Next Due Date : 09-07-2021
Traceability : TRANSCAL

OBSERVATION RESULTS

SL NO.	NOMINAL VALUE (UUC) (°C)	OBSERVED VALUE (MASTER) (^{0}C) / (Ω)	(±) ERROR (^{0}C)	± Expanded Uncertainty At 95% Confidence Level (k=2) (^{0}C)
1	1.0	1.04 / 100.390	-0.04	0.60
2	2.0	2.07 / 100.780	-0.07	0.60
3	3.0	5.11 / 101.989	-2.11	0.60
4	4.0	6.14 / 102.379	-2.14	0.60
5	6.0	6.19 / 102.379	-0.19	0.60

Calibration Procedure Based On **:UCSL/SOP/01 -T (ITS-90)**

NOTE : -

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 our certificates are Traceable to National standard..
5. UUC : Unit under consideration , GUT : Gauge under testing .

Calibrated By
F02(5.10/01-T)

Issued / Approved By
(MANU MATHEW)
Technical Manager

Laboratory : 5/D3, EK Appartments, Model engineering college road Thrikkakara, Edappally, Cochin, Kerala-682021
Registered Office : Plot No. 611-P, Sector - 38, Gurgaon Haryana - 122001

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E-mail: sales@uniquecalibration.com, website: www.uniquecalibration.com

NABL
C.No.: CC-3102

CALIBRATION CERTIFICATE

UNIQUE LAB REPORT NO(ULR NO) :	CC310220000001048F		
SRF NO. :	088	Certificate No :	UCSL/11-20/088_12

User Name : **M/s MORRIS MATHIAS HOSPITAL**
355,KP ROAD,Dr MATHIAS NAGER ,NAAGERCOIL,
TAMIL NADU-629001

Nomenclature	TEMPERATURE INDICATOR OF INCUBATOR
Make/Model	ADCO
Range	37 to 80°C
Least Count	0.1 °C
Instrument Id. No.	MMH/LAB/INC-1/019
Instrument Sr. No.	--
Location	MICROBIOLOGY
Visual Inspection	OK
Material Receipt Date	--
Calibration Performed at	ON SITE
Date of Calibration	09.11.2020
Suggested Due Date of Calibration	09.11.2021
Certificate Issue Date	14.11.2020

ENVIRONMENTAL CONDITION	
Temperature	(25 ± 5)°C
Relative Humidity	(60 ± 15)%RH

Equipment & Master Used For Calibration

01. RTD sensor 4 WIRE
Make : KELVIN INSTRUMENTS&DEVICES
Sr. No. : 20021703
ULR No. : CC232620000001578F
Next Due Date : 10-07-2021
Traceability : STIC

02. 6.5 DIGITAL MULTIMETER
Make : FLUKE
Serial No. : 8845A
Certificate No. : TSC/20-21/2211-1
Next Due Date : 09-07-2021
Traceability : TRANSCAL

OBSERVATION RESULTS

SL NO.	NOMINAL VALUE (UUC) (°C)	OBSERVED VALUE (MASTER) (°C) / (Ω)	(±) ERROR (°C)	± Expanded Uncertainty At 95% Confidence Level (k=2) (°C)
1	37.0	37.15 / 114.419	-0.15	0.60
2	40.0	40.20 / 115.618	-0.20	0.60
3	50.0	50.23 / 119.466	-0.23	0.60
4	60.0	60.29 / 123.316	-0.29	0.60
5	80.0	80.33 / 131.004	-0.33	0.60

Calibration Procedure Based On :UCSL/SOP/01 -T (ITS-90)

NOTE : -

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 our certificates are Traceable to National standard..
5. UUC : Unit under consideration , GUT : Gauge under testing .

Calibrated By
F02(5.10/01-T)

Issued / Approved By
(MANU MATHEW)
Technical Manager

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