

SI.	Set Volume	:	Standard Value	Systematic Error		cceptable ematic Error	Error		ndom Error	Uncertainty
	Discipline :		Mecha		Parameter Acceptable Random		:	Volume Vo	olume Expanded	
				CAL	BRATI	ON RESULTS				
26.5 55				1007				26.	3	
Т	emperature(°C)		Relati	ive Humidity (%)		eric Pressure nbar)		Water Tem	perature(°C)
					NMENT	TAL CONDITIO	NS			
Certific	cate No.	:	TVCSPL 23	/10/1135-01		Calibra	tion Due Date		: 02.10.2024	
Model	I	:	BBC-22	,		Serial N	•		: 27104178	-
Make		:	Boeco Geri			Readab	oility		: 0.01/0.1 mg	g
Nomer	nclature	:	Electronic	Precision Balar		Range			: 0 – 210 gm	
		ali guarrano		and the state of the state of the state of	MASTE	R EQUIPMENT	USED			
Range		:	20 - 200 μl	_			Location	:	Central Labor	ratory
	ment Condition	:	Good				Resolution	:	1 μΙ	
	/ Model	:	Mispa i 2				D No.	:	-	
Nomer	nclature	:	Micropipet	te			Serial No.	:	YN21BG0013	026
			DE	TAILS OF DEV	ICE UN	DER CALIBRAT	ION(DUC)			
Next C	Calibration Due	:	18/03/202	5		D	ate of Issue	:	19/03/2024	
Date o	of Calibration	:	19/03/202	4		S	RF Number	:	058	
Custor	mer Details	:	SPARSHA [DIAGNOSTICS,	UPPER	R BENDOOR, N	IANGALORE.			
Certific	cate Number	:	MES24/03/	/058-01		UL	R Number	:	CC254324000	0000353F
				CHADIU		N CERTIFICA	XIL			

Notes: -

No.

1

2

3

μl

20

100

200

The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

Systematic Error

±μl

0.40

1.40

12.00

- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.

Error

μl

0.05

-0.11

-0.42

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by Prabin KP (Calibration Engineer)

Value

μl

19.95

100.11

200.42



Authorized Signatory

±μl

0.20

0.60

4.00

μΙ

0.03

0.19

0.32

Binoj Thomas (Technical Manager) ±μl

0.819

0.902



CALIBRATION CERTIFICATE

Customer Details : SPARSHA DIAGNOSTICS, UPPER BENDOOR, MANGALORE.

Date of Calibration : 19/03/2024 SRF Number : 058

Next Calibration Due : 18/03/2025 Date of Issue : 19/03/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Serial No. : YN21BAG0013028

Make / Model : Mispa i 2 ID No. : Equipment Condition : Good Resolution : 1 μl

Range : 20 - 200 μL Location : Central Laboratory

DETAILS OF MASTER EQUIPMENT USED

Nomenclature: Electronic Precision BalanceRange: 0 - 210 gmMake: Boeco GermanyReadability: 0.01/0.1 mgModel: BBC-22Serial No.: 27104178

Certificate No. : TVCSPL 23/10/1135-01 Calibration Due Date : 02.10.2024

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.9	57	1007	26.7

CALIBRATION RESULTS

	Discipline :	Mech	anical	Paramet	ter	: Volume		
SI.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty	
No.	μl	μΙ	μΙ	±μl	μΙ	±μl	±μl	
1	20	19.97	0.03	0.40	0.03	0.20	0.819	
2	100	100.27	-0.27	1.40	0.04	0.60	0.821	
3	200	200.46	-0.46	12.00	0.32	4.00	1.091	

Notes: -

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by
Prabin KP

(Calibration Engineer)



Authorized Signatory



CALIBRATION CERTIFICATE

Customer Details : SPARSHA DIAGNOSTICS, UPPER BENDOOR, MANGALORE.

Date of Calibration : 19/03/2024 SRF Number : 058

Next Calibration Due : 18/03/2025 Date of Issue : 19/03/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Serial No. : YE20BAS0077285

Make / Model : Dragon Lab ID No. : Equipment Condition : Good Resolution : 0 µl

Range : 50 µL Location : Central Laboratory

DETAILS OF MASTER EQUIPMENT USED

Nomenclature : Electronic Precision Balance Range : 0 – 210 gm Make : Boeco Germany Readability : 0.01/0.1 mg

Model : BBC-22 Serial No. : 27104178

Certificate No. : TVCSPL 23/10/1135-01 Calibration Due Date : 02.10.2024

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.7	58	1007	26.5

CALIBRATION RESULTS

[Discipline :	Mech	anical	Parame	ter	: Volume		
SI.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty	
NO.	μl	μl	μl	± μl	μΙ	±μl	±μl	
1	50	50.04	-0.04	0.50	0.06	0.20	0.183	

Notes: -

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

Prabin KP (Calibration Engineer)

To abig



Authorized Signatory



		CALIBRATIO	N CERTIFICATE		
Certificate Number	:	MES24/03/053-03	ULR Number	:	CC254324000000316F
Customer Details	:	SPARSHA DIAGNOSTICS, UPPE	R BENDOOR, MANGALORE.		
Date of Calibration	:	14/03/2024	SRF Number	:	053
Next Calibration Due	:	13/03/2025	Date of Issue	:	14/03/2024
		DETAILS OF DEVICE U	IDER CALIBRATION(DUC)		
Nomenclature	:	Micropipette	Serial No.	:	YE202AM0110224
Make / Model	:	Dragon Lab	ID No.	:	-
Equipment Condition	:	Good	Resolution	:	5 μΙ
Range	:	100 - 1000 μL	Location	:	Central Laboratory
	Similar mayor	DETAILS OF MAST	ER EQUIPMENT USED		
Nomenclature	:	Electronic Precision Balance	Range		0 – 210 gm
Make	:	Boeco Germany	Readability	:	0.01/0.1 mg
Model	:	BBC-22	Serial No.	:	27104178
Certificate No.	:	TVCSPL 23/10/1135-01	Calibration Due Date	:	02.10.2024
		ENVIRONMEN	TAL CONDITIONS		
Temperature(°C)		Relative Humidity (%)	Atmospheric Pressure (mbar)		Water Temperature(°C)
26.7		57	1007		26.5

	Discipline :	Mech	anical	Parame	ter	: V	Volume	
SI. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty	
140.	μΙ	μΙ	μΙ	± μl	μΙ	±μl	±μl	
1	100	100.32	-0.32	1.40	0.02	0.60	4.083	
2	500	502.05	-2.05	12.00	0.06	4.00	4.085	

12.00

0.12

CALIBRATION RESULTS

Notes: -

1000

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.

-4.20

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 865\$-6 Guidelines;MES work procedure: MES/WP/VOLUME.

Calibrated by

1004.20

Prabin KP
(Calibration Engineer)



Authorized Signatory

Binoj Thomas (Technical Manager)

4.00





				CALIBRA	TIOI	N CERTIFIC	ATE			
Certifi	icate Number	:	MES24/03	/053-04		UI	LR Number	:	CC25432400	0000317F
Custo	mer Details	:	SPARSHA I	DIAGNOSTICS,	UPPE	R BENDOOR, N	ANGALORE.			
Date o	of Calibration	:	14/03/202	4		S	RF Number	:	053	
Next C	Calibration Due	:	: 13/03/2025			Date of Issue		:	14/03/2024	
DETAILS OF DEVICE UNDER CALIBRATION(DUC)										
Nome	nclature	:	Micropipette Serial No.					:	YE175AB010	05015
Make	/ Model	:	Erba Manr	heim			ID No.	:	-	
Equip	ment Condition	Condition : Good Resolution				:	1 μΙ			
Range		:	10 - 100 μΙ	L			Location	:	Central Labo	ratory
				DETAILS OF	MASTE	R EQUIPMENT	T USED			
Nome	enclature	:	Electronic	Precision Balar	nce	Range			: 0 – 210 gm	
Make		:	Boeco Ger	many		Readal	oility	:	: 0.01/0.1 m	
Mode	I	:	BBC-22			Serial N	-		27104178	0
Certifi	icate No.	:	TVCSPL 23	TVCSPL 23/10/1135-01		Calibration Due Date		e :	: 02.10.2024	ļ.
			,	ENVIRO	NMEN	TAL CONDITIO	NS			
1	Temperature(°C)		Relat	ive Humidity (%)		eric Pressure		Water Ten	nperature(°C)
	26.9			55		(mbar) 1007			20	-
	20.5				RRATI	ON RESULTS	1007		26	. /
	Discipline :		Mecha		DIVATI	Paramet	tor			
		Si	tandard	Systematic	Λ	cceptable	Random	:		olume
SI.	Sl. Set Volume		Value	Error	l	ematic Error	Error		cceptable	Expanded
No.				LIIOI	3730	Ciliatic Ellor	EIIOI	пa	ndom Error	Uncertainty

Notes: -

1

2

3

μl

10

50

100

The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

±μl

0.12

0.50

1.40

μl

0.02

0.04

0.05

- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.

 μ l

0.04

-0.07

-0.25

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by Prodein

μl

9.96

50.07

100.25

Prabin KP (Calibration Engineer)



Authorized Signatory

Binoj Thomas (Technical Manager)

±μl

0.08

0.20

0.60

±μl

0.817

0.820



				CALIBR	ATIO	N CERTIFIC	CATE			
Certif	ficate Number	:	MES24/03	3/053-05		U	LR Number	:	CC2543240	00000318F
Custo	mer Details	:	SPARSHA	DIAGNOSTICS	, UPPE	R BENDOOR, I	MANGALORE			
Date	of Calibration	:	14/03/2024			SRF Number			053	
Next Calibration Due : 13/03/202			25		1	Date of Issue	:	14/03/2024	1	
			DI	ETAILS OF DEV	ICE UI	NDER CALIBRA	TION(DUC)			
Nome	enclature	:	Micropipe	tte			Serial No.	:	387464	
Make	/ Model	:	Hemostar				ID No.	:	-	
Equip	ment Condition	:	Good				Resolution	:	0 μΙ	
Range	2	:	100 μL			Location			Central Labo	oratory
				DETAILS OF	MAST	ER EQUIPMEN	T USED			
Nome	enclature	:	Electronic	Precision Bala	nce	Range		:	0 – 210 gm	1
Make		:	Boeco Ger	many	Readability			:	0.01/0.1 m	ng
Mode	•	:	BBC-22			Serial I	No.	:	27104178	
Certifi	icate No.	:	TVCSPL 23	/10/1135-01			ition Due Dat	e :	02.10.2024	4
			1	ENVIRO	NMEN	TAL CONDITIO	NS			
1	Femperature(°C)		Relative Humidity (9		%)	Atmospheric Pressure (mbar)			Water Temperature(°C)	
27.3				57		1007			27	.1
CALIBRATION RESULTS										
[Discipline :		Mecha	nical		Paramet	ter	:	٧	olume
SI.	Set Volume		andard	Systematic	l	cceptable	Random		ceptable	Expanded
No.			Value	Error	Syst	ematic Error	Error	Ran	dom Error	Uncertainty
	μl		μl	μl		± μl	μl		±μl	±μl

Notes: -

1

100

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.

1.40

0.06

Next calibration due date is mentioned as per customer requirement.

-0.28

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by
Prabin KP
(Calibration Engineer)

100.28



Authorized Signatory

Binoj Thomas (Technical Manager)

0.60





27.3

8.226

15.00

		CALIBRATIO	N CERTIFICATE							
Certificate Number	:	MES24/03/053-06	ULR Number	:	CC254324000000319F					
Customer Details	:	SPARSHA DIAGNOSTICS, UPPE	R BENDOOR, MANGALORE							
Date of Calibration	:	14/03/2024	SRF Number	:	053					
Next Calibration Due :		13/03/2025	Date of Issue	:	14/03/2024					
DETAILS OF DEVICE UNDER CALIBRATION(DUC)										
Nomenclature	:	Micropipette	Serial No.	:	PW13793					
Make / Model	: Themo Scientific/ Finnpipette F3		3 ID No.	:	-					
Equipment Condition	:	Good	Resolution	:	10 μΙ					
Range	:	500 – 5000 μL	Location	:	Central Laboratory					
		DETAILS OF MASTE	R EQUIPMENT USED							
Nomenclature	:	Electronic Precision Balance	Range		: 0 – 210 gm					
Make	:	Boeco Germany	Readability		: 0.01/0.1 mg					
Model	:	BBC-22	Serial No.		: 27104178					
Certificate No. : TVCSPL 23		TVCSPL 23/10/1135-01	Calibration Due Dat	e	: 02.10.2024					
		ENVIRONMENT	AL CONDITIONS							
Temperature(°C)		Relative Humidity (%)	Atmospheric Pressure (mbar)		Water Temperature(°C					

			CAL	IBRATION RESULTS			
	Discipline :	Mech	anical	Paramet	ter	: V	olume
SI.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
No.	μΙ	μΙ	μΙ	±μl	μl	±μl	±μl
1	500	502.21	-2.21	12.00	0.01	4.00	8.165
2	2500	2511 53	-11 53	40.00	0.09	15.00	8 176

1007

0.33

Notes: -

27.5

5000

• The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

40.00

- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.

56

-22.62

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by
Prabin KP
(Calibration Engineer)

5022.62



Authorized Signatory
Binoj Thomas



Medical Engineering & Services Things Beyond Thoughts

Abhcon Crown, X1/411/21, Ambadi Lane Kokkalai, Thrissur-21. Ph: 0487 2420367 Email: mescalibration.tsr@gmail.com Visit us @www.mescalibration.com

26.3

1.095

4.00

CALIBRATION CERTIFICATE CC254324000000315F **ULR Number** MES24/03/053-02 Certificate Number SPARSHA DIAGNOSTICS, UPPER BENDOOR, MANGALORE. **Customer Details** : 053 SRF Number : 14/03/2024 **Date of Calibration** : 14/03/2024 Date of Issue **Next Calibration Due** : 13/03/2025 **DETAILS OF DEVICE UNDER CALIBRATION(DUC)** : YN4A009301 Serial No. Micropipette Nomenclature ID No. Mispa i 2 Make / Model 1μ l Resolution Good **Equipment Condition** Central Laboratory 20 - 200 μL Location Range **DETAILS OF MASTER EQUIPMENT USED** : 0 - 210 gm Range **Electronic Precision Balance** Nomenclature : 0.01/0.1 mg Readability **Boeco Germany** Make 27104178 Serial No. Model BBC-22 02.10.2024 **Calibration Due Date** TVCSPL 23/10/1135-01 Certificate No. **ENVIRONMENTAL CONDITIONS Atmospheric Pressure** Water Temperature(°C) **Relative Humidity (%)** Temperature(°C) (mbar)

			CAL	IDRATION RESULTS			
	Discipline :	Mech	anical	Parame	ter	: V	olume
SI.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
No.	μΙ	μΙ	μΙ	± μl	μl	±μl	±μl
1	20	19.95	0.05	0.40	0.01	0.20	0.817
2	100	100.20	-0.20	1.40	0.09	0.60	0.838

CALIDDATION DECLIET

1007

0.32

Notes: -

3

26.5

100

200

The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

12.00

- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.

56

-0.42

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by Prabin KP (Calibration Engineer)

200.42



Authorized Signatory



26.3		58	RDATI	ON RESULTS		20.1
Temperature(°C)		Relative Humidity (%)		Atmospheric Pressure (mbar) 1007		Water Temperature(°C) 26.1
			MENT	TAL CONDITIONS		
Certificate No.	:	TVCSPL 23/10/1135-01		Calibration Due Date	:	02.10.2024
Model	:	BBC-22		Serial No.	:	27104178
Make	:	Boeco Germany		Readability	:	0.01/0.1 mg
Nomenclature	:			Range	:	0 – 210 gm
nonge	-		MASTE	R EQUIPMENT USED		
Range	:	50 μL		Location	:	Central Laboratory
Equipment Condition	:	Good		Resolution	:	0 μΙ
Make / Model	:	Matrix Gel System		ID No.	:	-
Nomenclature	:	Micropipette		Serial No.	:	NK479663
TYCKE CUID TO CONTROL	_		ICE UN	DER CALIBRATION(DUC)		
Next Calibration Due	:	13/03/2025		Date of Issue	:	14/03/2024
Date of Calibration	<u>.</u>	14/03/2024		SRF Number	:	053
Customer Details	:		UPPE	R BENDOOR, MANGALORE.		
Certificate Number	:	MES24/03/053-01		ULR Number	:	CC254324000000314F
		CALIBRA	OIT	N CERTIFICATE		

Notes: -

SI.

No.

Set Volume

μl

50

• The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

Acceptable

Systematic Error

±μl

0.50

Random

Error

 μ l

0.05

Acceptable

Random Error

±μl

0.20

Expanded

Uncertainty

±μl

0.131

- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.

Systematic

Error

 μ l

-0.06

- Calibration certificate issued for scientific or industrial purpose only.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by
Prabin KP
(Calibration Engineer)

Standard

Value

μl

50.06



Authorized Signatory

RUE VALUE CALIBRATION SERVICES PVT LTD.,





ULR No. CC214424000001742F Page 2 of 2 Certificate No. TVCSPL 24/03/0362-01 MECHANICAL CALIBRATION (Volume) Calibration Results 2. Middle Volume : 10 μ l No. of Measurements: 10 10.04 10.02 10.03 9.88 10.02 9 97 9.92 10.00 9.97 Mean Value: μl Error Limits(±) Systematic Error -0.01 μ l 0.12 μl Systematic Error -0.140,0 1.20 Random Error 0.05 μΙ 0.08 μl Random Error 0.52 % 0.80 Measurement Uncertainty : 0.26 μΙ 3. Nominal Volume: 20 μΙ No. of Measurements: 10 19.97 19.91 20.09 19.95 19.98 20.00 19.97 20.04 19.93 20.06 Mean Value: 19.99 μl Error Limits(±) Systematic Error -0.01 0.20 μl μl Systematic Error -0.03 % 1.00 % Random Error 0.06μl 0.10 μl Random Error 0.29 % 0.50 Measurement Uncertainty: 0.26 μl

Remarks

- 1. The reported Expanded Uncertainty is calculated at 95.45 % C.L. with coverage factor *k*= 2
- 2. The above Micropipette was within the error limits
- 3. Masters are Traceable to SI Units.

Calibrated by : M: Jountha

Ms. Jeevitha

(Calibration Engineer)

* End of Cortificate CH-99

Authorised by:

D.Vetri Selv (QM & TM)

... redefining the true value

92, S.R.B Nagar Main Road, Chennai - 600 099. Tamil Nadu, India. Ph: 97102 22422 / 522 / 622

Cell: 94440 38060 Email: calibrationservices@live.com www.truevaluecalibration.com CIN No: U29268TN2015PTC103428



TRUE VALUE CALIBRATION SERVICES PVT LTD.,



CERTIFICATE OF CALIBRATION

FT-Q-25					Page 1 of 2
ULR No.	: C(C21442400000	1742F		V
Certificate No.	: TT	/CSPL 24/03/0	362-01	Date of Issue	: 17-03-2024
Date of Calibration	: 15	-03-2024		Recom. Due Date	: 14-03-2025
Customer Details				SRF No.	: 0362
M/s. Sparsha Diagnosti	cs,			Calibrated at	: Lab
Mangalore - 575 002.				Date of Receipt	: 15-03-2024
				Cond. On Receipt	: Satisfactory
Details of Test Instrumer					46.5
Description :	Micropi	pette		Model No.	Mispa-i-series
Range :	2-20µl			Serial No.	OW12967
Least Count :	0.02µl			Id. No.	D =
Make :	Agappe			Accuracy	As per Manual
Location :		Laboratory			
Details of Standard Used Name		: C10			562 19802
Weighing Machine		Certific		Valid upto	Calibrated at
		TVCSPL 24/		04-03-2025	CC-2144
Weighing Machine Work Instruction		TVCSPL 24/	/02/0219-03	23-02-2025	CC-2144
Environmental Details		WI-M-03 Temperature		Relative Humidity : 50±1	
			(Volu Calibration	to the second se	
1. Lower Volume :	2	μΙ		No. of Measuremen	ts: 10
1.951		1.952	3/2 [1.972	1.991
1.954		1.992	D	1.966	1.961
1.976		2.003			
	μ1	2.003			
	μΙ	2.003	Error Limits	s(±)	
	μl -0.03	2.003	Error Limits	s(±) μl	
Mean Value : 1.972		N.			
Mean Value : 1.972 Systematic Error :	-0.03	μΙ	0.08	μΙ	
Mean Value : 1.972 Systematic Error :	-0.03	μΙ	0.08	μΙ	
Mean Value: 1.972 Systematic Error: Systematic Error:	-0.03 -1.42	μl %	0.08 4.00	μI %	
Mean Value: 1.972 Systematic Error: Systematic Error: Random Error: Random Error:	-0.03 -1.42 0.02 0.93	µl %	0.08 4.00 0.04 2.00	μl %	
Mean Value: 1.972 Systematic Error: Systematic Error: Random Error: Random Error:	-0.03 -1.42 0.02 0.93	µ1 %	0.08 4.00 0.04 2.00	μl %	
Mean Value: 1.972 Systematic Error: Systematic Error: Random Error:	-0.03 -1.42 0.02 0.93	µ1 %	0.08 4.00 0.04 2.00	μl %	

Ms.Jeevitha

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... redefining the true value

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