



Precised Calibration Service

# SCIENTIFIC LAB EQUIPMENT SERVICE

(NABL Accredited Calibration Laboratory)

Room No. 1, PSC Building, No. 503, Veeraboyar Colony,

Dr. Nanjappa Road, Coimbatore - 641 018.

PH : 0422 - 2237280, 99945 12732, 98402 62732

Email: info@slescbe.com, lab@slescbe.com

GSTIN : 33AEKFS6370M1ZH



CC-3474

## CERTIFICATE OF CALIBRATION

ULR No.	: CC347423000001769F	Page no	: 1 of 2
Certificate No.	: SLESM03231769	Date of Issue	: 22.03.2023
Date of Calibration	: 22.03.2023	Recom. Due Date	: 21.09.2023
Customer Details	:	CRF No.	: 160
M/s : ABC Micro Lab,		Date of Receipt	: 21.03.2023
No.34,Vaiyapuri Nagar 4th Cross,		Calibrated at	: Lab
Karur - 639002.			

### Device Under Calibration Details:

Description	: Micropipette	Location	: ---
Make	: Finnpiquette	Range	: 100 - 1000 µl
Model No.	: ---	Resolution	: 5 µl
Serial No.	: W14701	Received Condition	: Satisfactory
Id.No.	: ABC/PIP2/016	Accuracy	: --
Reference doc	: SLES/CSOP-M-03	Reference Standard	: ISO 8655 - 6 : 2022

### Environmental Details :

Temperature : 22.6°C	Relative Humidity : 52.9%	Air Pressure : 960.1 hpa
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### Equipment used calibration & Traceability :

Name	Certificate No.	Validity	Traceability
Weighing Balance	SLESB03231501	13-03-2024	SLES,CBE

THE STANDARDS ARE TRACEABLE TO NATIONAL / INTERNATIONAL STANDARDS

Discipline : MECHANICAL CALIBRATION

Group : Mass & Volume

Measured Volume @ 27°C

### Calibration Results

1. Selected Volume :	1000 µl	No. of Measurements :	10
	995.78		995.85
	995.79		995.88
	996.44		995.95
			996.40
			996.16
			996.26
			996.26

Mean Value : 996.08 µl

### Error Limits(±)

Systematic Error	: -3.92	µl	8.00	µl
Systematic Error	: -0.39	%	0.80	%
Random Error	: 0.25	µl	3.00	µl
Random Error	: 0.03	%	0.30	%

Measurement Uncertainty : ± 1.16 µl

Calibrated by :

Mr.C.S.Harisankar  
(Calibration Engineer)

Authorised by:

Mr.R.Janarthanan  
(Quality Manager)





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ULR No. : CC347423000001769F Page 2 of 2  
Certificate No. : SLESM03231769

Discipline : MECHANICAL CALIBRATION Group : Volume

Measured Volume @ 27°C

### Calibration Results

2. Selected Volume : 500 µl No. of Measurements : 10

498.05	498.12	498.25	498.32
498.36	498.46	498.43	498.53
498.55	498.62		

Mean Value : 498.37 µl

### Error Limits(±)

Systematic Error :	-1.63	µl	8.00	µl
Systematic Error :	-0.33	%	1.6	%

Random Error :	0.19	µl	3.00	µl
Random Error :	0.02	%	0.6	%

Measurement Uncertainty : ± 1.16 µl

3. Selected Volume : 100 µl No. of Measurements : 10

100.56	100.73	100.76	100.41
100.47	100.54	100.57	100.67
100.77	100.67		

Mean Value : 100.62 µl

### Error Limits(±)

Systematic Error :	0.62	µl	8.00	µl
Systematic Error :	0.62	%	8.0	%

Random Error :	0.12	µl	3.00	µl
Random Error :	0.01	%	3.0	%

Measurement Uncertainty : ± 0.68 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

\* End of Certificate \*

Calibrated by :

Mr.C.S.Harisankar  
(Calibration Engineer)

Authorised by:

Mr.R.Janarthanan  
(Quality Manager)





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## CERTIFICATE OF CALIBRATION

ULR No. :	CC347423000001768F	Page no :	1 of 2
Certificate No. :	SLESM03231768	Date of Issue :	22.03.2023
Date of Calibration :	22.03.2023	Recom. Due Date :	21.09.2023
Customer Details :		CRF No. :	160
M/s : ABC Micro Lab,		Date of Receipt :	21.03.2023
No.34,Vaiyapuri Nagar 4th Cross,		Calibrated at :	Lab
Karur - 639002.			

### Device Under Calibration Details:

Description :	Micropipette	Location :	---
Make :	Finnpipette	Range :	5 - 50 µl
Model No. :	---	Resolution :	0.5 µl
Serial No. :	W13610	Received Condition :	Satisfactory
Id.No. :	ABC/PIP1/015	Accuracy :	--
Reference doc. :	SLES/CSOP-M-03	Reference Standard :	ISO 8655 - 6 : 2022

### Environmental Details :

Temperature : 22.6°C	Relative Humidity : 52.6%	Air Pressure : 960.1 hpa
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### Equipment used calibration & Traceability :

Name	Certificate No.	Validity	Traceability
Weighing Balance	SLESB03231501	13-03-2024	SLES,CBE

THE STANDARDS ARE TRACEABLE TO NATIONAL / INTERNATIONAL STANDARDS

### Discipline : MECHANICAL CALIBRATION

Group : Mass & Volume

Measured Volume @ 27°C

### Calibration Results

1. Selected Volume : 50 µl No. of Measurements : 10

49.48	49.75	49.73	49.78
49.85	49.79	49.96	49.83
49.84	49.96		

Mean Value : 49.80 µl

### Error Limits(±)

Systematic Error :	-0.20	µl	0.50	µl
Systematic Error :	-0.40	%	1.00	%
Random Error :	0.14	µl	0.25	µl
Random Error :	0.27	%	0.50	%

Measurement Uncertainty : ± 0.68 µl

Calibrated by :

Mr.C.S.Harisankar  
(Calibration Engineer)

Authorised by:

Mr.R.Janarthanan  
(Quality Manager)





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ULR No.	: CC34742300001768F	Page 2 of 2	
Certificate No.	: SLESM03231768		
<b>Discipline : MECHANICAL CALIBRATION</b>		<b>Group : Volume</b>	
<b>Measured Volume @ 27°C</b>			
<b>Calibration Results</b>			
<b>2. Selected Volume :</b>	<b>25     μl</b>	<b>No. of Measurements :     10</b>	
24.80	24.87	24.81	24.71
25.00	24.84	25.00	25.07
24.78	24.85		
<b>Mean Value :</b>	<b>24.87     μl</b>		
<b>Error Limits(±)</b>			
<b>Systematic Error :</b>	-0.13     μl	0.50     μl	
<b>Systematic Error :</b>	-0.52     %	2.0     %	
<b>Random Error :</b>	0.11     μl	0.25     μl	
<b>Random Error :</b>	0.23     %	1.0     %	
<b>Measurement Uncertainty :</b>	±     0.68     μl		
<b>3. Selected Volume :</b>	<b>5     μl</b>	<b>No. of Measurements :     10</b>	
4.94	4.95	4.95	4.98
4.97	4.93	5.00	4.64
4.71	4.69		
<b>Mean Value :</b>	<b>4.87     μl</b>		
<b>Error Limits(±)</b>			
<b>Systematic Error :</b>	-0.13     μl	0.50     μl	
<b>Systematic Error :</b>	-2.54     %	10.0     %	
<b>Random Error :</b>	0.14     μl	0.25     μl	
<b>Random Error :</b>	0.28     %	5.0     %	
<b>Measurement Uncertainty :</b>	±     0.07     μl		
<b>Remarks</b>			
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			
* End of Certificate *			
<b>Calibrated by :</b>		<b>Authorised by:</b>	
Mr.C.S.Harisankar (Calibration Engineer)		Mr.R.Janarthanan (Quality Manager)	





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CC-3474

## CERTIFICATE OF CALIBRATION

ULR No. :	CC347423000001767F	Page no :	1 of 2
Certificate No. :	SLESM03231767	Date of Issue :	22.03.2023
Date of Calibration :	22.03.2023	Recom. Due Date :	21.09.2023
Customer Details :		CRF No. :	160
M/s : ABC Micro Lab,		Date of Receipt :	21.03.2023
No.34,Vaiyapuri Nagar 4th Cross,		Calibrated at :	Lab
Karur - 639002.			

### Device Under Calibration Details:

Description :	Micropipette	Location :	---
Make :	Erba	Range :	10 - 100 µl
Model No. :	---	Resolution :	1 µl
Serial No. :	YE177AF00414	Received Condition :	Satisfactory
Id.No. :	---	Accuracy :	--
Reference doc :	SLES/CSOP-M-03	Reference Standard :	ISO 8655 - 6 : 2022

### Environmental Details :

Temperature : 22.6°C	Relative Humidity : 52.6%	Air Pressure : 960.1 hpa
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### Equipment used calibration & Traceability :

Name	Certificate No.	Validity	Traceability
Weighing Balance	SLESB03231501	13-03-2024	SLES,CBE

THE STANDARDS ARE TRACEABLE TO NATIONAL / INTERNATIONAL STANDARDS

Discipline : MECHANICAL CALIBRATION

Group : Mass & Volume

Measured Volume @ 27°C

### Calibration Results

1. Selected Volume : 100 µl No. of Measurements : 10

99.56	99.63	99.62	99.61
99.64	99.67	99.74	99.72
99.77	99.84		

Mean Value : 99.68 µl

### Error Limits(±)

Systematic Error :	-0.32	µl	0.80	µl
Systematic Error :	-0.32	%	0.80	%
Random Error :	0.09	µl	0.300	µl
Random Error :	0.09	%	0.30	%

Measurement Uncertainty : ± 0.68 µl

Calibrated by :

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(Calibration Engineer)

Authorised by:

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ULR No. : CC347423000001767F Page 2 of 2  
Certificate No. : SLESM03231767

Discipline : MECHANICAL CALIBRATION Group : Volume

Measured Volume @ 27°C

Calibration Results

2. Selected Volume : 50 µl No. of Measurements : 10

49.68	49.75	49.78	49.85
49.79	49.79	49.96	49.93
50.12	49.49		

Mean Value : 49.82 µl

Error Limits(±)

Systematic Error :	-0.18	µl	0.80	µl
Systematic Error :	-0.36	%	1.6	%

Random Error :	0.17	µl	0.30	µl
Random Error :	0.17	%	0.6	%

Measurement Uncertainty : ± 0.68 µl

3. Selected Volume : 10 µl No. of Measurements : 10

9.94	10.01	9.95	9.93
9.99	9.96	9.97	9.96
9.95	10.02		

Mean Value : 9.97 µl

Error Limits(±)

Systematic Error :	-0.03	µl	0.80	µl
Systematic Error :	-0.27	%	8.0	%

Random Error :	0.03	µl	0.30	µl
Random Error :	0.03	%	3.0	%

Measurement Uncertainty : ± 0.68 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

\* End of Certificate \*

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