



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-21-22-L-711/01

Page No : 1 of 1

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010166F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	5 - 50µl	Model	--
Resolution	0.5 µl	Material	pvc
Serial Number	HU71436	Operating Range	10 - 50µl
ID Number	CPC/BIO/PIPT/01	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl										
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10	10.05	10.03	10.08	10.09	10.05	10.05	0.05	0.03	0.20
		9.97	10.05	10.06	10.04	10.05				
2	25	25.11	25.16	25.34	25.25	25.26	25.19	0.19	0.07	0.20
		25.14	25.16	25.12	25.17	25.23				
3	50	50.36	50.38	50.39	50.41	50.17	50.35	0.35	0.08	0.20
		50.42	50.33	50.37	50.29	50.41				

Note: Conformity Statement

Pass: Fail:

Remarks

- UUC is Defined as the Unit Under Calibration.
- The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor $k=2$.
- This Calibration Certificate relates only to the above UUC & Reported results are valid at the time of and under the stated conditions of measurements.
- Calibration of the UUC are traceable to National / International Standards.
- This report shall not be reproduced in full/ part without prior permission of Venus Calibration and Instruments.
- The recalibration interval shall be determined on the user requirements.
- Nabl-133 guidelines are adopted for use of NABL symbol.
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.
- Our Nabl Scope is Upto 10µl to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:

K.Sathish

(Deputy Quality Manager)



Authorised by:

C.Dhinakaran

(Technical/Quality Manager)



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-21-22-L-711/02

Page No : 1 of 1

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010167F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	VERTEX
Range	500µl	Model	--
Resolution	NA	Material	pvc
Serial Number	031200946	Operating Range	500µl
ID Number	CPC/BIO/PIPT/02	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	500	501.23	501.46	501.58	501.44	501.36	501.42	1.42	0.15	0.88	
		501.27	501.48	501.69	501.22	501.42					

Note: Conformity Statement

Pass: Fail: **Remarks**

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Checked & Issued by:

K.Sathish

(Deputy Quality Manager)



Authorised by:

C.Dhinakaran

(Technical/Quality Manager)



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-21-22-L-711/03

Page No : 1 of 1

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010168F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	100 - 1000µl	Model	--
Resolution	5 µl	Material	pvc
Serial Number	5115411	Operating Range	100 - 1000µl
ID Number	CPC/BIO/PIPT/03	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	100.23	100.24	100.56	100.25	100.27	100.33	0.33	0.11	0.20
		100.44	100.36	100.25	100.27	100.42				
2	500	500.99	501.12	501.34	501.26	501.24	501.30	1.29	0.15	0.88
		501.27	501.46	501.44	501.36	501.47				
3	1000	1002.36	1002.44	1002.55	1002.41	1002.46	1002.47	2.47	0.10	0.88
		1002.47	1002.48	1002.69	1002.54	1002.33				

Note: Conformity Statement

Pass: Fail:

Remarks

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- Nabl-133 guidelines are adopted for use of NABL symbol.
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.
- Our Nabl Scope is Upto 10µl to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:

K.Sathish

(Deputy Quality Manager)



Authorised by:

C.Dhinakaran

(Technical/Quality Manager)



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-21-22-L-711/04

Page No : 1 of 1

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010169F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	100 - 1000 μ l	Model	--
Resolution	5 μ l	Material	pvc
Serial Number	5027228	Operating Range	100 - 1000 μ l
ID Number	CPC/BIO/PIPT/04	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature ($^{\circ}$ C)	23 \pm 2	Humidity (%RH)	55 \pm 15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature ($^{\circ}$ C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in μ l											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (\pm)	
1	100	100.12	100.14	100.25	100.36	100.17	100.19	0.19	0.07	0.20	
		100.12	100.24	100.18	100.15	100.17					
2	500	500.74	500.68	500.71	500.89	500.74	500.75	0.75	0.08	0.88	
		500.81	500.88	500.67	500.69	500.66					
3	1000	1001.45	1001.55	1001.52	1001.43	1001.65	1001.55	1.55	0.08	0.88	
		1001.47	1001.56	1001.61	1001.64	1001.58					

Note: Conformity Statement

Pass: Fail: **Remarks**

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- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.
- Our Nabl Scope is Upto 10 μ l to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:

K.Sathish

(Deputy Quality Manager)



Authorised by:

C.Dhinakaran

(Technical/Quality Manager)



CC-2725



CERTIFICATE OF CALIBRATION

Certificate No: CC-21-22-L-711/05

Page No : 1 of 1

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010170F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	200 - 1000µl	Model	--
Resolution	5 µl	Material	pvc
Serial Number	HU41806	Operating Range	200 - 1000µl
ID Number	CPC/HEM/PIPT/05	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	200	200.56	200.45	200.47	200.58	200.41	200.50	0.49	0.08	0.88	
		200.48	200.56	200.38	200.45	200.61					
2	500	500.89	500.88	500.82	500.78	500.91	500.88	0.88	0.06	0.88	
		500.79	500.97	500.93	500.91	500.88					
3	1000	1001.12	1001.17	1001.25	1001.09	1001.24	1001.19	1.19	0.08	0.88	
		1001.15	1001.34	1001.15	1001.27	1001.15					

Note: Conformity Statement

Pass: Fail:

Remarks

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- Our Nabl Scope is Upto 10µl to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:

K.Sathish

(Deputy Quality Manager)



Authorised by:

C.Dhinakaran

(Technical/Quality Manager)



CC-2725



CERTIFICATE OF CALIBRATION

Page. No : 1 of 1

Certificate No: CC-21-22-L-711/06

Customer Name & Address
M/s. CPC Laboratory,
Calicut.

ULR No.	CC272521000010171F
SRF No.	VCI-21-22-L-711
Date of Receipt	03.11.2021
Date of Calibration	03.11.2021
Due Date for Calibration	02.11.2022
Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	5 - 50µl	Model	--
Resolution	0.5 µl	Material	pvc
Serial Number	HU39075	Operating Range	10 - 50µl
ID Number	CPC/HEM/PIPT/06	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10	9.95	9.93	9.94	9.94	9.92	9.93	-0.07	0.02	0.20	
		9.91	9.90	9.94	9.93	9.94					
2	25	24.69	24.89	24.79	24.88	24.81	24.83	-0.17	0.06	0.20	
		24.88	24.81	24.86	24.85	24.82					
3	50	49.74	49.71	49.73	49.70	49.68	49.67	-0.33	0.06	0.20	
		49.55	49.68	49.62	49.63	49.67					

Note: Conformity Statement

Pass: Fail:

Remarks

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- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.
- Our Nabl Scope is Upto 10µl to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:


K.Sathish

(Deputy Quality Manager)



Authorised by:


C.Dhinakaran

(Technical/Quality Manager)

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CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-21-22-L-711/07

Page No: 1 of 1

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010172F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	VERTEX
Range	1000µl	Model	--
Resolution	NA	Material	pvc
Serial Number	--	Operating Range	1000µl
ID Number	CPC/HEM/PIPT/07	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	1000	998.56	998.12	998.36	998.42	998.27	998.32	-1.68	0.13	0.88	
		998.15	998.25	998.36	998.25	998.42					

Note: Conformity StatementPass: Fail: **Remarks**

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Checked & Issued by:

K. Sathish

(Deputy Quality Manager)

**Authorised by:**

C.Dhinakaran

(Technical/Quality Manager)



CC-2725



CERTIFICATE OF CALIBRATION

Page No : 1 of 1

Certificate No: CC-21-22-L-711/08

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010173F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	100µl	Model	--
Resolution	NA	Material	pvc
Serial Number	5115771	Operating Range	100µl
ID Number	CPC/HEM/PIPT/08	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	100.42	100.41	100.38	100.32	100.37	100.44	0.44	0.08	0.20	
		100.53	100.50	100.58	100.52	100.39					

Note: Conformity Statement

Pass: Fail:

Remarks

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Checked & Issued by:

K.Sathish

(Deputy Quality Manager)



Authorised by:

C.Dhinakaran

(Technical/Quality Manager)



CC-2725

**CERTIFICATE OF CALIBRATION**

Page No : 1 of 1

Certificate No: CC-21-22-L-711/09

Customer Name & Address M/s. CPC Laboratory, Calicut.	ULR No.	CC272521000010174F
	SRF No.	VCI-21-22-L-711
	Date of Receipt	03.11.2021
	Date of Calibration	03.11.2021
	Due Date for Calibration	02.11.2022
	Date of Issue	05.11.2021

Details of Unit Under Calibration

Description	Micro Pipette	Make	ERBA BIOHIT
Range	25µl	Model	--
Resolution	NA	Material	pvc
Serial Number	HU41920	Operating Range	100µl
ID Number	CPC/HEM/PIPT/09	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

Sl. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-L-659/01	Wensar / MAB 250	National Standards	15.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	25	24.85	24.81	24.83	24.88	24.90	24.83	-0.17	0.06	0.20	
		24.78	24.75	24.81	24.96	24.77					

Note: Conformity Statement

Pass: Fail:

Remarks

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(Deputy Quality Manager)



Authorised by:


 C.Dhinakaran

(Technical/Quality Manager)