



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-423/03

Page No: 1 of 1

Customer Name & Address M/s. KCRB NEETHI MEDICAL LAB & X-RAY CENTRE, KUNNAMANGALAM.	ULR No.	CC272522000006764F
	SRF No.	VCI-22-23-L-422
	Date of Receipt	30.08.2022
	Date of Calibration	30.08.2022
	Due Date for Calibration	29.08.2023
	Date of Issue	01.09.2022

## Details of Unit Under Calibration

Description	Micro Pipette	Make	Dragon Lab
Range	20 - 200µl	Model	--
Resolution	1 µl	Material	pvc
Serial Number	YE213ASO183456	Operating Range	20 - 200µl
ID Number	NL/PTE/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-S-994/01	Wensar / MAB 250	National Standards	14.10.2022

Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	20	19.98	19.95	19.97	19.93	19.91	19.94	-0.06	0.03	0.20	
		19.99	19.91	19.95	19.92	19.90					
2	100	99.89	99.87	99.82	99.80	99.75	99.81	-0.19	0.05	0.20	
		99.85	99.83	99.81	99.79	99.71					
3	200	200.02	200.03	200.07	200.12	200.15	200.09	0.09	0.05	0.88	
		200.05	200.06	200.09	200.13	200.17					

## 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 &amp; Issued by:

M. Manju

M.Manju

(Engineer - Calibration)

## Authorised by:

C. Dhinakaran

C.Dhinakaran

(Technical/Quality Manager)

No.16, 6th Street, Annai Sathya Nagar, Poothapedu Ramapuram, Chennai - 89.

Ph: +91 44 2476 0533 /0633, Mob: 90031 20649, 9789893643, 8807402558

e: venuscallab@gmail.com, info@venuscal.com | www.venuscal.com



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**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-423/01

Page No: 1 of 1

Customer Name & Address M/s. KCRB NEETHI MEDICAL LAB & X-RAY CENTRE, KUNNAMANGALAM.	ULR No.	CC27252200006762P
	SRF No.	VCI-22-23-L-423
	Date of Receipt	30.08.2022
	Date of Calibration	30.08.2022
	Due Date for Calibration	29.08.2023
	Date of Issue	01.09.2022

**Details of Unit under Calibration**

Description	Micro Pipette	Make	ERBA
Range	5-50 $\mu$ l	Model	--
Resolution	0.5 $\mu$ l	Material	pvc
Serial Number	MB402030	Operating Range	10-50 $\mu$ l
ID Number	NL/PTE/05	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°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 (°C)	21.6	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-S-994/01	Wensar / MAB 250	National Standards	14.10.2022

Z Factor: 1.00319

Result of Calibration in $\mu$ l											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )	
1	10	10.02	10.06	10.09	10.13	10.17	10.10	0.10	0.06	0.20	
		10.05	10.07	10.11	10.15	10.19					
2	25	25.21	25.25	25.29	25.35	25.39	25.31	0.31	0.07	0.20	
		25.23	25.27	25.32	25.37	25.42					
3	50	50.45	50.49	50.55	50.59	50.65	50.56	0.56	0.08	0.20	
		50.47	50.52	50.57	50.63	50.69					

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  $k=2$ .
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- 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 10 $\mu$ l to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked &amp; Issued by:

M. Manju

M.Manju

(Engineer - Calibration)

Authorised by:

C.Dhinakaran

(Technical/Quality Manager)

No.16, 6th Street, Annai Sathya Nagar, Poothapedu Ramapuram, Chennai - 89.

Ph: +91 44 2476 0533 /0633, Mob: 90031 20649, 9789893643, 8807402558

e: venuscallab@gmail.com, info@venuscal.com | www.venuscal.com



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**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-423/02

Page No: 1 of 1

Customer Name & Address M/s. KCRB NEETHI MEDICAL LAB & X-RAY CENTRE, KUNNAMANGALAM.	ULR No.	CC272522000006763F
	SRF No.	VCI-22-23-L-423
	Date of Receipt	30.08.2022
	Date of Calibration	30.08.2022
	Due Date for Calibration	29.08.2023
	Date of Issue	01.09.2022

## Details of Unit Under Calibration

Description	Micro Pipette	Make	Dragon Lab
Range	100 - 1000 µl	Model	--
Resolution	5 µl	Material	pvc
Serial Number	YE176AF0017287	Operating Range	100 - 1000 µl
ID Number	NL/PTE/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)	21.6	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-S-994/01	Wensar / MAB 250	National Standards	14.10.2022

## Result of Calibration in µl

SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.99	99.97	99.95	99.90	99.85	99.92	-0.08	0.06	0.88
		99.98	99.96	99.91	99.87	99.83				
2	500	500.02	500.03	500.07	500.13	500.17	500.09	0.09	0.07	0.88
		500.01	500.05	500.09	500.15	500.19				
3	1000	1000.21	1000.25	1000.32	1000.37	1000.42	1000.33	0.33	0.08	0.88
		1000.23	1000.29	1000.35	1000.39	1000.45				

## 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  $k=2$ .
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- 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.

Checked &amp; Issued by:

M. Manju  
M.Manju

(Engineer - Calibration)

Authorised by:

C.Dhinakaran

(Technical / Quality Manager)

No.16, 6th Street, Annai Sathya Nagar, Poothapedu Ramapuram, Chennai - 89.

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e: venuscallab@gmail.com, info@venuscal.com | www.venuscal.com



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-423/06

Page No: 1 of 1

Customer Name & Address M/s. KCRB NEETHI MEDICAL LAB & X-RAY CENTRE, KUNNAMANGALAM.	ULR No.	CC27252200006767F
	SRF No.	VCI-22-23-L-423
	Date of Receipt	30.08.2022
	Date of Calibration	30.08.2022
	Due Date for Calibration	29.08.2023
	Date of Issue	01.09.2022

## Details of Unit Under Calibration

Description	Micro Pipette	Make	Erba
Range	10 - 100 µl	Model	--
Resolution	1 µl	Material	pvc
Serial Number	YE175AB0104485	Operating Range	10 - 100µl
ID Number	NL/PTE/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-S-994/01	Wensar / MAB 250	National Standards	14.10.2022

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	9.99	9.97	9.95	9.92	9.90	9.95	-0.06	0.03	0.20	
		9.98	9.96	9.93	9.91	9.94					
2	50	50.02	50.07	50.09	50.13	50.17	50.11	0.11	0.05	0.20	
		50.05	50.08	50.12	50.15	50.19					
3	100	100.23	100.27	100.32	100.37	100.42	100.33	0.33	0.07	0.20	
		100.25	100.29	100.35	100.39	100.45					

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 &amp; Issued by:

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M. Manju

(Engineer - Calibration)

Authorised by:

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e: venuscallab@gmail.com, info@venuscal.com | www.venuscal.com



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-423/05

Page No : 1 of 1

Customer Name & Address M/s. KCRB NEETHI MEDICAL LAB & X-RAY CENTRE, KUNNAMANGALAM.	ULR No.	CC27252200006766P
	SRF No.	VCI-22-23-L-423
	Date of Receipt	30.08.2022
	Date of Calibration	30.08.2022
	Due Date for Calibration	29.08.2023
	Date of Issue	01.09.2022

**Details of Unit under Calibration**

Description	Micro Pipette	Make	ERBA
Range	5-50 $\mu$ l	Model	--
Resolution	0.5 $\mu$ l	Material	pvc
Serial Number	YE176AF0016346	Operating Range	10-50 $\mu$ l
ID Number	NL/PTE/03	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)	21.6	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-S-994/01	Wensar / MAB 250	National Standards	14.10.2022

Z Factor: 1.00319

Result of Calibration in $\mu$ l											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty ( $\pm$ )	
1	10	9.98	9.99	9.93	9.95	9.89	9.94	-0.06	0.04	0.20	
		9.97	9.96	9.91	9.90	9.88					
2	25	24.87	24.83	24.81	24.79	24.75	24.80	-0.20	0.05	0.20	
		24.85	24.82	24.80	24.78	24.71					
3	50	50.02	50.07	50.11	50.15	50.19	50.12	0.12	0.07	0.20	
		50.05	50.09	50.13	50.17	50.23					

**Note: Conformity Statement**Pass: Fail: **Remarks**

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M.Manju

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(Engineer - Calibration)

**Authorised by:**

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C.Dhinakaran

(Technical/Quality Manager)

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Ph: +91 44 2476 0533 /0633, Mob: 90031 20649, 9789893643, 8807402558

e: venuscallab@gmail.com, info@venuscal.com | www.venuscal.com



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-423/04

Page No: 1 of 1

Customer Name & Address M/s. KCRB NEETHI MEDICAL LAB & X-RAY CENTRE, KUNNAMANGALAM.	ULR No.	CC27252200006765F
	SRF No.	VCI-22-23-L-423
	Date of Receipt	30.08.2022
	Date of Calibration	30.08.2022
	Due Date for Calibration	29.08.2023
	Date of Issue	01.09.2022

## Details of Unit Under Calibration

Description	Micro Pipette	Make	Dragon Lab
Range	1000 µl	Model	-
Resolution	NA	Material	pvc
Serial Number	YE16CAA0131215	Operating Range	1000 µl
Number	NL/PTE/04	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)	21.6	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-21-22-5-994/01	Wensar / MAB 250	National Standards	14.10.2022

## Result of Calibration in µl

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	1000	999.98	999.91	999.89	999.83	999.80	999.87	-0.13	0.06	0.88
		999.95	999.90	999.85	999.82	999.79				

## Note: Conformity Statement

Pass: Fail: 

## Remarks

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- Our Nabl Scope is upto 10µl to 10ml.

Checked &amp; Issued by:

M. Manju  
M. Manju

(Engineer - Calibration)

Authorised by:

C. Dhinakaran

(Technical / Quality Manager)

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