



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-2223-L-244/01

Page No : 1 of 1

Customer Name & Address M/s. NAALVAR DIAGNOSTICS New No.22, Old No.23, Neelakidangu St, Karaikal - 609 602.	ULR No.	CC272522000004644P
	SRF No.	VCI-2223-L-244
	Date of Receipt	28.03.2022
	Date of Calibration	28.03.2022
	Due Date for Calibration	27.03.2023
	Date of Issue	29.03.2022

**Details of Unit under Calibration**

Description	Micro Pipette	Make	Dragon Lab
Range	5 - 50µl	Model	--
Resolution	0.5 µl	Material	pvc
Serial Number	YE17BAG0056408	Operating Range	5- 50µl
ID Number	ND/QSP/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)	21.6	Cal Procedure No	VCI-L03-WI-MASS-003

**Standard Used**

Sl. No.	Description	ID.No. / Sl. 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	5	5.05	5.07	5.11	5.04	5.06	5.08	0.08	0.04	0.20	
		5.02	5.09	5.13	5.10	5.11					
2	25	25.13	25.17	25.23	25.28	25.33	25.24	0.24	0.08	0.20	
		25.15	25.19	25.25	25.31	25.35					
3	50	50.37	50.41	50.45	50.49	50.53	50.46	0.46	0.06	0.20	
		50.39	50.43	50.47	50.51	50.55					

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)



Authorized by:

C.Dhinakaran

(Technical / Quality Manager)

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**CERTIFICATE OF CALIBRATION**

Certificate No: CC-2223-L-244/02

Page. No : 1 of 1

Customer Name & Address M/s. NAALVAR DIAGNOSTICS New No.22, Old No.23, Neelakidangu St, Karaikal - 609 602.	ULR No.	CC2725220000004645F
	SRF No.	VCI-2223-L-244
	Date of Receipt	28.03.2022
	Date of Calibration	28.03.2022
	Due Date for Calibration	27.03.2023
	Date of Issue	29.03.2022

## Details of Unit Under Calibration

Description	Micro Pipette	Make	Dragon Lab
Range	100 - 1000µl	Model	--
Resolution	5µl	Material	pvc
Serial Number	YE17BAG0056715	Operating Range	100 - 1000µl
ID Number	ND/QSP/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)	21.6	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 µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	99.98	99.96	99.94	99.93	99.89	99.93	-0.07	0.04	0.20	
		99.97	99.95	99.91	99.92	99.85					
2	500	500.05	500.07	500.11	500.15	500.19	500.12	0.12	0.06	0.88	
		500.02	500.09	500.13	500.17	500.22					
3	1000	1001.25	1001.29	1001.33	1001.37	1001.41	1001.34	1.34	0.06	0.88	
		1001.27	1001.32	1001.35	1001.39	1001.43					

## Note: Conformity Statement

Pass: Fail: 

## Remarks

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Checked &amp; Issued by:

M. Manju  
M.Manju

(Engineer - Calibration)



Authorised by:

C.Dhinakaran

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**CERTIFICATE OF CALIBRATION**

Certificate No: CC-2223-L-244/03

Page No : 1 of 1

Customer Name & Address M/s. NAALVAR DIAGNOSTICS New No.22, Old No.23, Neelakidangu St, Karaikal - 609 602.	ULR No.	CC272522000004646F
	SRF No.	VCI-2223-L-244
	Date of Receipt	28.03.2022
	Date of Calibration	28.03.2022
	Due Date for Calibration	27.03.2023
	Date of Issue	29.03.2022

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	Dragon Lab
Range	10 -100µl	Model	-
Resolution	1 µl	Material	pvc
Serial Number	YESA463270	Operating Range	10 - 100µl
ID Number	ND/QSP/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)	21.6	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 µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10	9.98	9.96	9.91	9.89	9.87	9.92	-0.08	0.04	0.20	
		9.97	9.95	9.93	9.88	9.86					
2	50	50.85	50.83	50.81	50.78	50.77	50.81	0.81	0.03	0.20	
		50.84	50.82	50.79	50.76	50.80					
3	100	100.02	100.07	100.11	100.15	100.19	100.12	0.12	0.06	0.20	
		100.05	100.09	100.13	100.17	100.21					

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

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Checked &amp; Issued by:

M. Manju  
M.Manju

(Engineer - Calibration)



Authorised by:

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CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-2223-L-244/04

Page No : 1 of 1

Customer Name & Address M/s. NAALVAR DIAGNOSTICS New No.22, Old No.23, Neelakidangu St, Karaikal - 609 602.	ULR No.	CC2725220000004647F
	SRF No.	VCI-2223-L-244
	Date of Receipt	28.03.2022
	Date of Calibration	28.03.2022
	Due Date for Calibration	27.03.2023
	Date of Issue	29.03.2022

**Details of Unit Under Calibration**

Description	Thermohygrometer	Make / Model	HTC-1
Range	10 to 90%RH, -10 to 50°C	Operating Range	20 to 90%RH, 10 to 50°C
Resolution	1%RH, 0.1°C	Condition of UUC	Good
Serial Number	--	Instrument Location	--
ID Number	ND/QSP/10	Cal. At	Thermal Lab

Environmental Condition		Calibration Method Used	
Temperature (°C)	25±4	Cal Procedure No	VCI-L03-WI-THER-008
Humidity (%RH)	35 - 75		

**Standard Used**

Sl. No.	Description	ID No/ SL.No	Certificate Number	Make & Model	Traceability	Validity
1	Digital Temperature Humidity Indicator with Sensor	VCI-T-DTHI-038	JRPM-CCTR-THER-2021-0610	Tempsen / TDPC-9696	National Standard	06.06.2022

**Results of Calibration****Humidity:@25°C**

Sl. No.	Standard Reading (%RH)	UUC Reading (%RH)	Error (%RH)	Measurement Uncertainty ± (%RH)
01	20.76	20	-0.76	2.24
02	50.93	50	-0.93	2.24
03	91.39	90	-1.39	2.24

**Temperature: @ 50% RH**

Sl. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Measurement Uncertainty ± (°C)
01	9.91	10.1	0.19	0.37
02	24.86	25.1	0.24	0.37
03	49.83	50.2	0.37	0.37

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- The recalibration interval shall be decided by the user.
- Nabl-133 guidelines are adopted for use of NABL symbol.
- The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor  $k=2$ .

Checked &amp; Issued by:

M. Manju  
M.Manju  
(Engineer - Calibration)



Authorised by:

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CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-2223-L-243/01

Page No : 1 of 1

Customer Name & Address M/s. Naalvar Diagnostics New No.22, Old No. 23, Neelakidangu St, Karaikal-609 602	ULR No.	CC2725220000004643F
	SRF No.	VCI-2223-L-243
	Date of Receipt	26.03.2022
	Date of Calibration	26.03.2022
	Due Date	25.03.2023
	Date of Issue	28.03.2022

**Details of Unit Under Calibration**

Description	Digital Thermo Sensor	Make	--
Range	-30 to 50°C	Model	--
Resolution	0.1°C	Condition of UUC	Good
Serial Number	--	Instrument Location	Bio Chemistry Lab
ID Number	ND/QSP/11	Cal. At	Thermal Lab

Environmental Condition		Calibration Method Used	
Temperature (°C)	25±4	National / International Standard	DKD-R-5-1
Humidity (%RH)	35 - 75	Cal Procedure No	VCI-L03-WI-THER-002

**Standard Used**

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	RTD Sensor with Indicator	VCI-T-RTD-002& VCI-ET-DT-013	CC-22-23-L-015/03	Aparajit Instruments	National Standards	08.01.2023

**Results of Calibration**

Sl. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Measurement Uncertainty ± (°C)
01	-19.88	-19.4	0.48	0.27
02	0.23	0.6	0.37	0.27
03	10.12	10.5	0.38	0.27
04	30.25	30.6	0.35	0.27
05	50.28	50.8	0.52	0.27

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- Temperature Chart : ITS-90

Checked &amp; Issued by:

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M.Manju  
(Engineer - Calibration)



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CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No : CC-2223-S-334/02

Page No : 1 of 1

<b>Customer Name &amp; Address</b> M/s. Naalvar Diagnostics New No.22, Old No. 23, Neelakidangu St, Karaikal-609 602	<b>ULR No.</b>	CC272522000004642F
	<b>SRF No.</b>	VCI-2223-S-334
	<b>Date of Receipt</b>	26.03.2022
	<b>Date of Calibration</b>	26.03.2022
	<b>Due Date of Calibration</b>	25.03.2023
	<b>Date of Issue</b>	28.03.2022

**Details of Unit Under Calibration**

<b>Description</b>	Refrigerator	<b>Make</b>	Godrej
<b>Range</b>	2 to 8°C	<b>Model</b>	RD EDGE 195CT 3.2
<b>Resolution</b>	0.1°C	<b>Condition of UUC</b>	Good
<b>Serial Number</b>	1706030053	<b>Instrument Location</b>	Bio Chemistry Lab
<b>ID Number</b>	ND/QSP/12	<b>Cal. At</b>	On Site

<b>Environmental Condition</b>		<b>Calibration Method Used</b>	
<b>Temperature (°C)</b>	30±5	<b>National / International Standard</b>	DKD-R-5-7
<b>Humidity (%RH)</b>	35 - 75	<b>Cal Procedure No</b>	VCI-L03-WI-THER-005

**Standard Used**

Sl. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	RTD Sensor with Indicator	VCI-T-RTD-002& VCI-ET-DT-013	CC-22-23-L-015/03	Aparajit Instruments	National Standards	08.01.2023

**Result of Calibration**

Sl. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Measurement Uncertainty ± (°C)
01	1.88	2.0	0.12	0.36
02	3.76	4.0	0.24	0.36
03	5.64	6.0	0.36	0.36
04	7.52	8.0	0.48	0.36

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- Temperature Chart : ITS-90

Checked &amp; Issued by:

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M.Manju  
(Engineer - Calibration)

Authorised by:

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CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No : CC-2223-S-334/01

Page.No : 1 of 1

<b>Customer Name &amp; Address</b> M/s. Naalvar Diagnostics New No.22, Old No. 23, Neelakidangu St, Karaikal-609 602	<b>ULR No.</b>	CC27252200004641F
	<b>SRF No.</b>	VCI-2223-S-334
	<b>Date of Receipt</b>	26.03.2022
	<b>Date of Calibration</b>	26.03.2022
	<b>Due Date of Calibration</b>	25.03.2023
	<b>Date of Issue</b>	28.03.2022

**Details of Unit Under Calibration**

<b>Description</b>	Centrifuge	<b>Make</b>	Labtech Medico
<b>Range</b>	100 to 3000 rpm	<b>Model</b>	80-1
<b>Resolution</b>	NA	<b>Condition of UUC</b>	Good
<b>Serial Number</b>	6029	<b>Instrument Location</b>	Bio Chemistry Lab
<b>ID Number</b>	ND/QSP/13	<b>Cal. At</b>	On Site

Environmental Condition		Calibration Method Used	
<b>Temperature (°C)</b>	23±5	<b>National / International Standard</b>	SANAS TR 45-02
<b>Humidity (%RH)</b>	40 - 70	<b>Cal Procedure No</b>	VCI-L03-WI-SPE-002

**Standard Used**

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Digital Tachometer	VCI-M-TM-011	CC-22-23-L-015/08	Lutron / DT-2234C	National Standards	08.01.2023

**Results of Calibration**

Sl. No.	UUC Set Point	Standard Reading (rpm)	Measurement Uncertainty (±) (%)
01	1	500.3	0.62
02	2	1027	0.19
03	3	1606	0.21
04	4	3005	0.26

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**Checked & Issued by:**

M. Manju  
M.Manju  
(Engineer-Calibration)

**Authorised by:**

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K.Sathish  
(Deputy Quality Manager)

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## CALIBRATION CERTIFICATE

Customer : Naalvar diagnostics Neelakidangu Street, Karaikal-609602 PH-04368-224313	Date of Calibration : 10.01.2022 Due Date : 09.01.2023 Serial No : YX-79001078
Instrument : Fully Auto Chemistry Analyzer Model : BS240 Manufacturer: SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD	

Golden Harvest Industries is an organization dealing in MINDRAY Auto Hematology Analyzers. It has a Technically Qualified Technical Team to ensure trouble free operation. The Described instrument has been checked and calibrated under the ambient conditions stated above.

Power Supply			
UPS Supply	Expected reading	Measured reading	Remarks
Earth to Phase	230 ± 10 VAC	226 VAC	With in Limits
Neutral to Phase	230 ± 10 VAC	226 VAC	
Earth to Neutral	0 - 5 VAC	0 VAC	

Power Supply Unit	Expected reading	Measured reading	Remarks
5V Output	5VDC ± 0.25V	5.02	Values are with in Limits
12V Output	12 VDC ± 1.2V	12.04	
12V Reagent Refrig.	12 VDC ± 1.2V	12.08	
24V Output	24 VDC ± 2.4V	24.10	

Software Communication	Status	Remarks
Operation Software Initialization Check	Normal	Nil
Communication between PC and Analyzer	Normal	Nil
Shutdown Check	Normal	Nil

Optical System Check	AD value	AD value range	Remarks
340 nm	50709	48000 to 54000	AD values are with in limit
405 nm	50770		
450 nm	50765		
510 nm	50750		
546 nm	50745		
578 nm	50755		
630 nm	50841		
670 nm	50785		

Temperature Check	Range	Measured Value	Remarks
Reaction Carousel Temperature	36.7 ° - 37.3 °C	37.0 °C	Values are within Range
Cuvette cleaning Fluid Temperature	39.0 ° - 49.0 °C	43.9 °C	
Cuvette wash solution Temperature	39.0 ° - 49.0 °C	44.1 °C	
Reagent Preheating Temperature	40.0 ° - 50.0 °C	45.0 °C	



Robotic Check	Status	Remarks
Sample / Reagent Probe Check	Normal	Nil
Sample / Reagent Syringe Check	Normal	Nil
Wash Unit Movement	Normal	Nil
Mixer Unit Check	Normal	Nil
Interior Washing Probe	Normal	Nil
Exterior Washing Probe	Normal	Nil
Exterior Washing Mixer	Normal	Nil
Reagent Unit	Normal	Nil
Reaction Unit	Normal	Nil
Reagent Preheater	Normal	Nil
Dust Filters	Cleaned	Nil

Fluidic Check	Status	Remarks
Wash Unit Detergent & Water Dispense	Normal	Nil
Wash Unit Sample & Water Aspiration	Normal	Nil
Interior Washing Probe	Normal	Nil
Exterior Washing Probe	Normal	Nil
Exterior Washing Mixer	Normal	Nil
Liquid Level Detection	Normal	Nil
Distilled Water filter	OK	Nil

**The Calibration includes:**

**Adjustments:** Checked the alignments for Sample/Reagent probe, Washing Unit, Mixer, Reaction Disk, Reagent/Sample Disk and their respective home positions.



**Pneumatics:** Checked the functions of Sample/Reagent Syringe and Distilled Water Supply Unit Pump and Solenoid Valves.

**Temperature:** Checked the temperature monitor for Pre-Heater, Reagent disk and Reaction Disk.

The above mentioned values are found to be with in the standard specified by SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD - CHINA.

**REMARKS/DEVIATIONS IF ANY:**

1. The recalibration interval should be determined based on the user's requirements.
2. The user should determine the stability of the instrument for its intended use.
3. The results stated in this certificate relate only to the instrument calibrated.

Authorized By  
Mr. N. Ganesan  
Zonal Manager – Technical Support