



9001:2015



## CERTIFICATE OF CALIBRATION

Certificate No : CC-23-24-NS-1800/02

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Customer Name & Address M/s. Sree Dhanvantri Lab Speciality Centre For Blood Disorders Near Mohanraj Children Hospital, 213/64, 11nd Agraharam, Salem - 636 001.	SRF No	VCI-23-24-NS-1800
	Date of Receipt	08.11.2023
	Date of Calibration	08.11.2023
	Due Date of Calibration	07.11.2024
	Date of Issue	09.11.2023

### Details of Unit under Calibration

Description	Bio Chemistry Analyser	Make	Erba
Range	As Per Result	Model	Chem-5x
Resolution	As Per Result	Condition of UUC	Good
SL.No	N140840	Instrument Location	--
ID No.	--	Cal. At	On Site

### Environmental Condition

Temperature(°C)	25±5	Humidity(%RH)	30 - 75
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### Standard Used

Sl. No.	Description	ID.No. / SI. No.	Certificate No.	Traceability	Valid till
1	Digital Multimeter	VCI-ET-DMM-001	MSIR/410222/199-001	MSIR India CC-3237	23.02.2024
2	Digital Manometer	VCI-M-MM-047/ VEMN2008019	JRPM-CF-2023-PRESS- CSRF-992-C-3183	JRPM Calibration CC-2428	17.08.2024
3	Digital Thermohygrometer	VCI-EE-HTM-01	CC-23-24-L-305/01	Venus Calibration CC-2725	28.09.2024
4	Weighing Balance	VCI-M-PB-069	CC-23-24-S-296/03	Venus Calibration CC-2725	27.06.2024

### Results of Calibration

S.No	Parameter	ESA Reading	Unit	Normal Range
1	Current	276	mA	500
2	Frequency	49.1	Hz	49-50
3	Mains Voltage Line - Neutral	236.7	Volts	220-240
4	Mains Voltage Line - Earth	235.1	Volts	220-240
5	Mains Voltage Neutral - Earth	4.1	Volts	< 7

### Remarks

- UUC is Defined as the Unit Under Calibration.
- 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.
- The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor k=2.

Checked & Issued by:

R. Bhuvaneshwari

(Engineer - Calibration)



Authorised by:

C. Dhinakaran

(Technical/Quality Manager)

\*\*\*\*\*END OF THE CERTIFICATE\*\*\*\*\*

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S.No	Parameter	UUC Reading	Standard Reading	Error	Unit
1	Lamp Voltage	11.72	19	-7.28	Volts
2	Detector Sensitivity	0.0	0	0.00	%Absorbance
3	Sipper Volume	438.4	451	-12.60	µl
4	Peristaltic Pump Pressure	-14.44	-14	-0.44	cmH2O

Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.1709	Ω	Normal	Closed	Closed	All
2	NFPA-99	Leakage:Earth	Normal	AC+DC	137.32	µA	Normal	Closed	Closed	All
3		Leakage:Earth	Normal	AC+DC	129.77	µA	Reversed	Closed	Closed	All
4		Leakage:Enclosure	Normal	AC+DC	0.00	µA	Normal	Closed	Open	All
5		Leakage:Enclosure	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
6		Leakage:Earth	SFC	AC+DC	268.24	µA	Normal	Open	Closed	All
7		Leakage:Earth	SFC	AC+DC	256.54	µA	Reversed	Open	Closed	All
8		Leakage:Enclosure	SFC	AC+DC	140.07	µA	Normal	Closed	Open	All
9		Leakage:Enclosure	SFC	AC+DC	145.54	µA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.128	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	54	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	227.5	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	221	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	4.7	V	Normal	Closed	Closed	All

15	IEC62353	Equipment Leakage	Direct Method	AC+DC	165.63	µA	Normal	Closed	Closed	All
16		Equipment Leakage	Direct Method	AC+DC	165.24	µA	Reversed	Closed	Closed	All

17	NFPA-99	Ground Leakage	Normal	AC+DC	140.77	µA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	137.01	µA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	270.55	µA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	270.84	µA	Reversed	Open	Closed	All
21		Chassis Leakage	Normal	AC+DC	0.01	µA	Normal	Closed	Closed	All
22		Chassis Leakage	Normal	AC+DC	0.01	µA	Reversed	Closed	Closed	All
23		Chassis Leakage	SFC	AC+DC	142.15	µA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	138.85	µA	Reversed	Closed	Open	All

Checked & Issued by:

*R.B*  
R.Bhuvaneshwari  
(Engineer - Calibration)



Authorised by:

*C*  
C.Dhinakaran  
(Technical/Quality Manager)

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25	IEC61010	Touch Leakage	Normal	AC+DC	0.01	μA	Normal	Closed	Closed	All
26		Touch Leakage	Normal	AC+DC	0.00	μA	Reversed	Closed	Closed	All
27		Touch Voltage	Normal	AC+DC	2.74	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	2.75	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	133.27	μA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	132.32	μA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	2.726	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	2.7	V	Reversed	Closed	Open	All

33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All
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34	Point to Point Testing	Point to Point Earth Bond Test	Normal	AC+DC	>19.9	Ω	Normal	Closed	Closed	All
35		Point to Point Leakage Test	Normal	AC+DC	0	mA	Normal	Closed	Closed	All
36		Standard Insulation Test	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All

Test Passed	Yes	Test On	08.11.2023
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Checked & Issued by:

*R.B.*  
R.Bhuvaneshwari  
(Engineer - Calibration)

\*\*\*\*\*END OF THE CERTIFICATE\*\*\*\*\*



Authorised by:

*C.D.*  
C.Dhinakaran  
(Technical/Quality Manager)