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## Calibration Certificate

**ADVIA Centaur XP**

**Customer Name** : Employees State Insurance Corp. Bapunagar.  
**Instrument Model & Sr No.** : Centaur XPT IRL28142107  
**Software Version** : Version 7.6  
**Tdef Version** : EM

**1. Perform Dark Count Test** **Ok / Not Ok**

(Dark count value for with and without cuvette are checked, the difference between both the means are below 25 RLUs. )

**Dark Count Results without Cuvette : (Fill below or attach print out)**

Total Results	Results	Remarks
Mean	42.88	Pass
CV	11.49	Pass
SD	4.52	Pass

**Dark Count with Cuvette : (Fill below or attach print out)**

Total Results	Results	Remarks
Mean	49.67	Pass
CV	9.35	Pass
SD	5.32	Pass

**2. Test Point Voltage checked in Back Plane PCB**

Test Point	Specification	Observed
TP1	- 12 VDC (-11.76 to 12.24)	-11.92 V
TP2	24 VDC (23.28 to 24.72)	24.02 V
TP3	12.10 VDC(11.86 to 12.84)	12.15 V
TP4	5.10 VDC (4.99 to 5.20)	5.16 V
TP5	GND	GND
TP6	-12.30 VDC (-12.0 to 12.55)	-12.28 V
TP7	12.10 VDC (11.86 to 12.34)	12.12 V
TP8	5.30 VDC (5.19 to .5.41)	5.28 V

Siemens Healthcare Private Limited

Registered Office: Unit No.9th Floor, North Wing, Godrej One, Pirojshanagar, Vikhroli (East), Mumbai 400 079. Telephone +91 22 33700600. Fax +91 22 33700654.  
 Sales Office: Ahmedabad, Bangalore, Chennai, Coimbatore, Hyderabad, Kolkata, Mumbai, Nagpur, New Delhi, Pune, Vadodara.

### 3. Thermal Operations (Fill below )

Module	Tolerance	Equilibrate	Remarks (Ok/Not Ok)
Primary Reagent A	In	In	Ok
Primary Reagent B	In	In	Ok
Primary Reagent C	In	In	Ok
Ancillary Compartment	In	In	Ok
R1 Probe	In	In	Ok
R2 Probe	In	In	Ok
R3 Probe	In	In	Ok
Incubation Ring A	In	In	Ok
Incubation Ring B	In	In	Ok
Incubation Ring C	In	In	Ok
Incubation Ring D	In	In	Ok
Pre Heater	In	In	Ok
PMT	In	In	Ok

### CERTIFICATE

This is to certify that ADVIA Centaur XPT with Sr.No. **IRL28142107** installed at **Employees State Insurance Corp. Bapunagar** has been calibrated on 11/08/2024 and the same was verified with the following tests.

1. Verified the Calibrations and alignment of Robotics visually
2. Checked the thermal operations of Reagents and ancillary assembly
3. Checked the tip tray loading and tip pick-up and found ok visually.

Calibration of the instrument was carried out as per the recommendation. Checked all voltages of the instrument and found in range with multimeter calibration parameters and performance tests are found within range.

Next Calibration will be performed on 10/08/2024.

**Siemens Healthcare Private Limited**



**Jagannath Choudhary**  
**Regional Customer Care Manager – West & West Central**



# GLOBAL

## BIO MEDICAL SERVICES INDIA



### CALIBRATION CERTIFICATE

ULR - CC40412400000594F

Certificate Number : ESIC/P/2	Page no : 1 of 1
Service request no : ATPL/2024/10/0053	Date of Receipt : 15.8.2024
Service request date : 14.08.2024	Calibration done at : LAB
Calibration date : 15.08.2024	Suggested Date Of Next Calibration (As Requested By Customer) : 15.02.2025
Date of issue : 16.08.2024	

<b>DETAILS OF CUSTOMER :-</b>	M/s. Chief Medical Officer, ESIC Model Hospital, Bapunagar, Ahmedabad Gujarat-380024
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#### DETAILS OF UNIT UNDER CALIBRATION (UUC)

Nomenclature : Micropipette	Range : Fixed 5 µl
Make : P'FACT	Least Count : —
Model : A	Visual Inspection : Ok
Serial No : 281667	Accuracy/Acceptance Criteria : —
ID Number : NA	Type : —
Location : BACTERIOLOGY	

#### STANDARD INSTRUMENTS USED FOR CALIBRATION

S.No	Nomenclature	Serial No	Identification No	Certificate No	Calibration Valid Upto
01	Electronic Semi Micro Balance	15114327	GBSI/MEC/WM-01	TVCSPL 24/02/0229-01	15.02.2025

Environmental Conditions	Calibration Procedure : SOP/MEC/004
Temperature : 25°C ± 5°C	Reference Std : ISO 8655-6
Humidity : 35 to 85% RH	

#### CALIBRATION RESULTS

Discipline :- Mechanical (Volume)

UUC Set Value	Measured Volume @ 27°C	Error	Uncertainty (±)	PASS/FAIL
µl	µl	µl	µl	
5	5.11	-0.11	0.16	PASS

\* UUC Means Unit Under Calibration

\* Reported Measured Volume at Average of 10 Measurements

#### Remarks :

- This certificate refers only to the particular item submitted for calibration.
- This certificate shall not be reproduced, except in full, without the written permission of Director of Global Biomedical Services .
- Results reported are valid at the time of & under the stated conditions of measurement.
- Laboratory Standards are Traceable to National and International Standards.
- The reported expanded uncertainty in measurement is stated as the standard uncertainty in measurement multiplied by coverage factor k=2, which is for a normal distribution corresponds to a coverage probability and level of confidence of approximately 95%.

\*\*\*\*\* End Of Certificate \*\*\*\*\*

Calibrated by

Authorised Signatory

Calibrated by  
Calibration Engineer  
*Jyothi*  
Jyothi  
(Technical Manager)



Authorised Signatory  
(Technical Manager/Quality Manager)  
*V. Naidu Babu Vanam*  
Naidu Babu Vanam  
(Quality Manager)

### GLOBAL BIOMEDICAL SERVICES INDIA

10-35-5/1,3rd floor, Near Federal Bank, Bhanoji Nagar, Visakhapatnam, Andhra Pradesh-530002.

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# GLOBAL

BIO MEDICAL SERVICES INDIA



## CALIBRATION CERTIFICATE

ULR - CC40412400000685F

Certificate Number : ESIC/P/3	Date of Receipt : 15.08.2024	Page no : 1 of 1
Service request no : ATPL/2024/10/0053	Calibration done at : LAB	
Service request date : 14.08.2024	Suggested Date Of Next Calibration (As Requested By Customer) : 15.02.2025	
Calibration date : 15.08.2024		
Date of issue : 16.08.2024		

<b>DETAILS OF CUSTOMER :-</b>	M/s. Chief Medical Officer, ESIC Model Hospital Bapunagar, Rajkot Gujarat-380024
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### DETAILS OF UNIT UNDER CALIBRATION (UUC)

Nomenclature : Micropipette	Range : FIXED 25 µl
Make : MICROLIT	Least Count : ----
Model : RBO	Visual Inspection : Ok
Serial No : 20407163	Accuracy/Acceptance Criteria : ----
ID Number : 0	Type : ----
Location : BACTERIOLOGY	

### STANDARD INSTRUMENTS USED FOR CALIBRATION

S.No	Nomenclature	Serial No	Identification No	Certificate No	Calibration Valid Upto
01	Electronic Semi Micro Balance	15114327	GBSI/MEC/WM-01	TVCSPL 24/02/0229-01	15.02.2025

Environmental Conditions	Calibration Procedure : SOP/MEC/004
Temperature : 25°C ± 5°C	Reference Std : ISO 8655-6
Humidity : 35 to 85% RH	

### CALIBRATION RESULTS

Discipline :-Mechanical (Volume)

UUC Set Value	Measured Volume @ 27°C	Error	Uncertainty (±)	PASS/FAIL
µl	µl	µl	µl	
25	25.10	-0.10	0.14	PASS

- \* UUC Means Unit Under Calibration
- \* Reported Measured Volume at Average of 10 Measurements

#### Remarks :

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\*\*\*\*\* End Of Certificate \*\*\*\*\*

Calibrated by

Authorised Signatory

Calibrated by

Calibration Engineer

Jyothi

(Technical Manager)



Authorised Signatory

(Technical Manager/Quality Manager)

Naidu Babu Vanam

(Quality Manager)

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# CRITISURE MEDITECH

Technology meets Knowledge



CC-3496

## CALIBRATION CERTIFICATE

ULR Number:- CC349624000000182F

Customer Name & Address: M/s Chied Medical Officer, ESIC Model Hospital,  
Bapunagar,Ahmedabad, Gujarat-380024

### Detail of Device under Calibration

Equipment Name:- CENTRIFUGE	Assess ID:- CM/CAL/ESIC-BPN/182
Make:- REMI	Date of Calibration:- 13-08-2024
Model:- R-8C PLUS	Suggested due date:- 12-08-2025
Serial Number:- ZGCN-07623	Date of issue:- 18-08-2024
Location of Calibration:- on site-PATHOLOGY (GROUND FLOOR)	Condition of Item:- Found Ok
Ambient Temperature:- 26.4°C	Note (if any)-
Cal. Procedure No.-SOP-43	Range:- Multi

### Master Equipment Details:

Sn	Standard Name	Make & Model	Serial Number	Certificate Number	Validity
1	Techometer	Systems & HTM-890	19-013	240409026	08-04-2025
2	Ele. Safety Analyzer	Fluke-ESA612	5544504	OHCC240146	10-04-2025
3					

## CALIBRATION RESULTS

Parameter name	UUC value	Limits	Result	Voltage (V)
Patient Leakage Current	18.5µA	<50 µA	PASS	L-N 228.8
Insulation Resistance	Open	200 mΩ	PASS	N-E 1.7
Body leakage Current	19.4µA	<100 µA	PASS	L-E 230.6
500V Applied test		PASS		

Parameter name	Standard reading	UUC Reading	Observation	Result
Rotation	RPM	RPM	RPM	RPM
	1000	1012	12	5.43
	2000	2011	11	5
	3000	3015	15	6.72



# CRITISURE MEDITECH

Technology meets Knowledge



CC-3496

ULR Number:- CC3496240000000182F

Parameter name	Standard reading	UUC Reading	Observation	Result
Rotation	RPM	RPM	RPM	RPM
	4000	4022	22	9.73
	5000	5014	14	6.29
	6000	6012	12	5.43

### Note:

- Entries in the Uncertainty column show the expanded measurement uncertainties evaluated and reported in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM) The coverage factor (k) is 2 with coverage probability of approximately 95.45%.
- The result reported is valid at the time of under the stated conditions of measurement.
- Any error in this report should be brought to our knowledge within 15 days from the date of this report.
- This certificate shall not be reproduced except in full or part without the written approval of the calibration facility.
- CRITISURE MEDITECH certifies that the performance of the above instrument has been verified using test equipment of known accuracy and had been calibrated using measurement standards traceable to the International System of Units (SI) through the National and international Standards.
- This certificate refers only to the particular item submitted for calibration.
- This certificate shall not be reproduced, except in full, without the written permission of CRITISURE MEDITECH.

\*\*\*End of Certificate\*\*\*

Calibrated By

Omkar Dave  
(Technical Manager)



Authorized by

Vipul Bhatu  
(Quality Manager)



# CRITISURE MEDITECH

Technology meets Knowledge



CC-3496

## CALIBRATION CERTIFICATE

ULR Number:- CC349624000000170F

Customer Name & Address: M/s Chied Medical Officer, ESIC Model Hospital,  
Bapunagar, Ahmedabad, Gujarat-380024

### Detail of Device under Calibration

Equipment Name:- DOM.REFRIGERATER	Assess ID:- CM/CAL/ESIC-BPN/170
Make:- WHIRPOOL	Date of Calibration:- 13-08-2024
Model:- FC32	Suggested due date:- 12-08-2025
Serial Number:- 74000919	Date of issue:- 18-08-2024
Location of Calibration:- on site-PATHOLOGY	Condition of Item:- Found Ok
Ambient Temperature:- 23.6°C	Note (if any)-
Cal. Procedure No.-SOP-16	Range:- Multi

### Master Equipment Details:

Sn	Standard Name	Make & Model	Serial Number	Certificate Number	Validity
1	Digital Thermometer	Nagman & 205	210908128	240409027	08-04-2025
2	Ele. Safety Analyzer	Fluke-ESA612	5544504	OHCC240146	10-04-2025
3					

## CALIBRATION RESULTS

Parameter name	UUC value	Limits	Result	Voltage (V)
Patient Leakage Current	2.3µA	<50 µA	PASS	L-N 227.9
Insulation Resistance	Open	200 mΩ	PASS	N-E 1.7
Body leakage Current	2.65µA	<100 µA	PASS	L-E 228.1
500V Applied test		PASS		

Parameter name	Standard reading	UUC Reading	Observation	Result
Temperature	°C	°C	°C	°C
	2	2	0	0.27
	5	3	-2	-0.59
	8	8	0	0.27



# CRITISURE MEDITECH

Technology meets Knowledge



CC-3496

ULR Number:- CC3496240000000170F

Parameter name	Standard reading	UUC Reading	Observation	Result

### Note:

- Entries in the Uncertainty column show the expanded measurement uncertainties evaluated and reported in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM) The coverage factor (k) is 2 with coverage probability of approximately 95.45%.
- The result reported is valid at the time of under the stated conditions of measurement.
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\*\*\*End of Certificate\*\*\*

Calibrated By

Omkar Dave  
(Technical Manager)



Authorized by

Vipul Bhatu  
(Quality Manager)