

CERTIFICATE OF CALIBRATION/ VERIFICATION

Customer Name : JIMS HOSPITAL
Instrument : Semi Automated Bio-Chemistry Analyzer.
Model : Chem5 Plus V2
Serial Number : EC5-N120810
Calibration Date : 12-01-2024.
Next Calibration due on before : 11-01-2025.

This is to certify that the above mentioned instrument has been verified of calibration according to the procedures provided by the manufacturer in the reference manual.

The reference instruments used for value assignment are managed by the traceability systems with the manufacturer and these are traceable to international standards.



Calibration/ Verification done by
NAGARAJU SAMBARAPU
Sr Application Specialist
Transasia Bio-Medicals Ltd.

Details Of Calibration/Verification

Model :- Chem 5+V2

Serial No :- EC5-N120810

General parameters:

Parameter	Measured Value	Acceptable Range	Result
Line voltage	230	230+/-5%	Pass
SMPS Voltage	18	17 to 19 volts	Pass
Lamp voltage	11.59	11.5 to 12	Pass
Flow cell temperature	37	37+/- 5%	Pass
Pump Calibration	11050	8000 to 12000	Pass

Photometer Filter gain levels:

Sl No	Filters in nm	Filters Gain in uv	Acceptable range of gain
1	340	017659	10000-200000 uv
2	405	025513	10000-200000 uv
3	450	044563	10000-200000 uv
4	505	073452	10000-200000 uv
5	546	037456	10000-200000 uv
6	600	048965	10000-200000 uv
7	630	032456	10000-200000 uv
8	670	037869	10000-200000 uv

Thermal Value

Sl no	Temperature(Celcius)	Time taken to attain	Acceptable time range
1	25to 30	24 sec	Up to 180 sec
2	30 to 37	40 sec	Up to 180 sec
3	37 to 30	60 sec	Up to 180 sec
4	30 to 25	37 sec	Up to 180 sec



For Transasia Biomedical Ltd
Nagaraju Sambarapu
Sr Application Specialist
Hyderabad.

ST-200aQua CALIBRATION CERTIFICATE

CUSTOMERS NAME: **JIMS Hospital**

ADDRESS: **# Munchintala, Pallamakula, Shamshabad, Hyderabad.**

CONTACT NO:

SERIAL NO OF THE INSTRUMENT: **STAQW-6904**

CALIBRATION DATE: **29/08/2023**

VALID TILL: **28/08/2024**

CALIBRATION DONE BY: **Mr. KIRAN DATE**

Calibration Slopes:				
S.No.	Na ⁺	K ⁺	iCa	Cl ⁻
1	66.58	66.45	37.59	57.87
2	66.59	66.30	37.45	57.85
3	66.56	66.40	37.50	57.85
Mean	66.57	66.38	37.51	57.85
Ranges	30-100mV/dec	30-100 mV/dec	15 - 50 mV/dec	30 - 100 mV/dec
Status	O.K	O.K	O.K	O.K

Sensa Core Medical Instrumentation Pvt. Ltd.

Plot, No: 3, Export Promotion Industrial Park, Pashamylaram, Medak (Dist), 502307, T.S. INDIA.
Tel: +08455 - 223400, www.sensacore.com

SENSA CORE
Healthcare and Diagnostic Products

Quality Control 1:				
	Lot:- UQC2211A-L1			Exp: Sep 2024
S.No.	Na+	K+	iCa	Cl ⁻
1	120.4	2.00	2.01	83.4
2	123.3	2.02	2.00	85.1
3	123.5	1.98	2.05	78.0
Mean	122.4	1.99	2.00	82.1
Ranges	113-128 mmol/L	1.5-2.5mmol/L	1.25-2.25mmol/L	76-90mmol/L
Status	O.K	O.K	O.K	O.K
Quality Control 2:				
	Lot:- UQC2211A-L2			Exp: Sep 2024
S.No.	Na+	K+	iCa	Cl ⁻
1	145.4	4.23	1.28	107.0
2	145.5	4.24	1.27	107.3
3	145.3	4.23	1.26	107.4
Mean	145.4	4.23	1.27	107.2
Ranges	132-153mmol/L	3.5-4.7mmol/L	0.62-1.62mmol/L	95-111mmol/L
Status	O.K	O.K	O.K	O.K
Quality Control 3:				
	Lot:- UQC2211A-L3			Exp: Sep 2024
S.No.	Na+	K+	iCa	Cl ⁻
1	161.1	5.89	0.73	119.0
2	160.8	5.90	0.75	120.1
3	160.9	5.93	0.72	121.3
Mean	160.9	5.90	0.73	120.1
Ranges	152-164mmol/L	5.4-6.8mmol/L	0.75-1.15mmol/L	116-128mmol/L
Status	O.K	O.K	O.K	O.K



Signature of Engineer

DATE: 29/08/2023

Signature of Doctor

DATE:

Sensa Core Medical Instrumentation Pvt. Ltd.

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CERTIFICATION OF OPERATION

INSTRUMENT NAME : ST-200aQua
SERIAL NUMBER : STAQW-6904
CUSTOMER NAME : JIMS Hospital
ADDRESS : Shamshabad, Hyderabad.

THE UNDERSIGNED PERFORMERS CERTIFY THAT THE OPERATIONAL QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

ENGINEER



Signature :
Name : MR. KIRAN DATE
Designation : NATIONAL SERVICE MANAGER
Company : SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.

QUALITY MANAGER

Signature : V. POSI BABU
Name : MR. POSI BABU V
Designation : QA/QC TEAM LEADER
Company : SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.

Sensa Core Medical Instrumentation Pvt. Ltd.

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OPERATIONAL QUALIFICATION OF THE INSTRUMENT:

DESCRIPTION	STATUS	REMARKS
POWER SUPPLY	SELF CHECK	PASSED
ELECTRONICS	SELF CHECK	PASSED
REAGENT PACK	SELF CHECK	PASSED
HARDWARE	SELF CHECK	PASSED
FLOW PATH	SELF CHECK	PASSED

FOR SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.



KIRAN DATTA
(National Manager-Service)

Sensa Core Medical Instrumentation Pvt. Ltd.

Plot, No: 3, Export Promotion Industrial Park, Pashamlaram, Medak (Dist), 502307, T.S. INDIA.
Tel: +08455 - 223400, www.sensacore.com

CERTIFICATION OF INSTALLATION

INSTRUMENT NAME : ST-200 aQua
SERIAL NUMBER : STAQW-6904
CUSTOMER NAME : JIMS Hospital
ADDRESS : Shamshabad, Hyderabad.

THE UNDERSIGNED PERFORMERS CERTIFY THAT THE INSTALLATION QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

ENGINEER



Signature :
Name : MR. KIRAN DATE
Designation : NATIONAL SERVICE MANAGER
Company : SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.

QUALITY MANAGER

Signature : *V. Posi Babu*
Name : MR. POSI BABU V
Designation : QA/QC TEAM LEADER
Company : SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.

Sensa Core Medical Instrumentation Pvt. Ltd.

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INSTALLATION REPORT

CUSTOMER NAME : JIMS Hospital
PLACE : Shamshabad, Hyderabad.
DEPARTMENT : Pathology Laboratory
INSTRUMENT NAME : ST 200 aQua
SERIAL NUMBER : STAQW-6904
INSTALLATION DATE : 29.08.2023
WARRANTY EXPIRY : 28.08.2024

THE ELECTROLYTE ANALYZER WAS INSTALLED ALONG WITH THE NECESSARY STANDARD ACCESSORIES, ALL BASIC REQUIREMENTS AND ADJUSTMENTS WERE CHECKED AND FOUND TO BE SATISFACTORY. THE PRELIMINARY STANDARDIZATION OF THE ELECTROLYTE ANALYZER AND THE TRAINING WERE PROVIDED TO THE COMPLETE SATISFACTION OF THE CUSTOMER. THE ELECTROLYTE ANALYZER IS FOUND TO BE WORKING SATISFACTORILY.

FOR SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.



KIRAN DATE
(National Manager-Service)

Sensa Core Medical Instrumentation Pvt. Ltd.

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INSTRUMENT SETUP

S No	ITEM DESCRIPTION	STATUS
1	SOFTWARE VERSION	INSTALLED
2	REAGENT PACK	INSTALLED
3	QUALITY CONTROL	TESTED

OPERATION INSPECTION

- POWER SUPPLY CHECKED.
- NO UNUSUAL NOISE PRODUCED IN THE SYSTEM.

FOR SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.



KIRAN DATTA
(National Manager-Service)

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Plot, No: 3, Export Promotion Industrial Park, Pashamylaram, Medak (Dist), 502307, T.S. INDIA.
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INSTALLATION QUALIFICATION

INSTRUMENT NAME : ST-200AQUA
SERIAL NUMBER : STAQW-6904
CUSTOMER NAME : JIMS Hospital
ADDRESS : Shamshabad, Hyderabad.

INSTALLATION REQUIREMENTS FOR THE INSTRUMENT:

REQUIREMENTS	ACCEPTABLE RANGE	OBSERVED RANGE
Input Voltage	220 \pm 10AC	217 \pm 5V AC
Line Frequency	50/60 HZ	50HZ
Ambient Temperature	10-35 degree	24 degree

FOR SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.


KIRAN DATE
(National Manager-Service)

PERFORMANCE ANALYSIS

The performance of the system has been verified by the following process.

Ten replicates of the control Level 1 & Level 2 & Level 3 have been run and the statistical analysis of the data is performed. The results should be within control range with following precision limits.

THE UNDERSIGNED PERFORMERS CERTIFY THAT THE PERFORMANCE QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

A separate annexure has been attached along with this document

ENGINEER



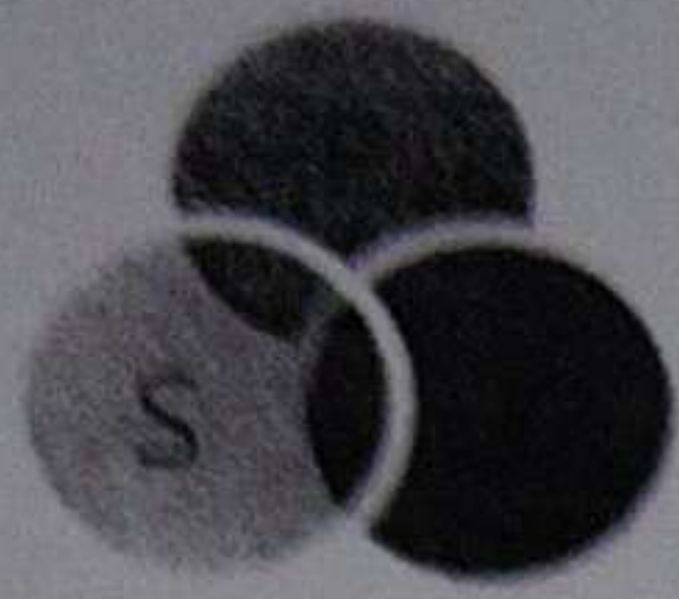
Signature :
Name : MR. KIRAN DATE
Designation : NATIONAL SERVICE MANAGER
Company : SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.

QUALITY MANAGER

Signature : *V. Posi Babu*
Name : MR. POSI BABU V
Designation : QA/QC TEAM LEADER
Company : SENSACORE MEDICAL INSTRUMENTATION Pvt. Ltd.

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Pinnacle Safety Engineers

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CALIBRATION CERTIFICATE OF CELL COUNTER

Issued to : JIMS Hospital, Shamshabad
 Certificate No. : PSE/CAL/JIMS/23/98
 Make : Sysmex Serial No : B6978
 Model No : XP-300 Date : 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2023	14.05.2024

TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS		
TEST	RESULTS	LIMITS
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω
Equipment current	1.4A	0 to 20.0 A ac rms
Insulation resistance	2 M Ω	+/-2%+0.2 M Ω
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 μA
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 μA
Lead isolation-	0.4Ma	0.0 to 1999 μA
Differential Leakage	0.1Ma	0.0 to 1999 μA
Direct Equipment Leakage	0.3μA	0.0 to 1999 μA
Direct applied part Leakage	0.7Ma	0.0 to 1999 μA
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma
Point to point leakage, Voltage and Resistance	0.2μA,0.2v&OLΩ	+/-2%+0.2V

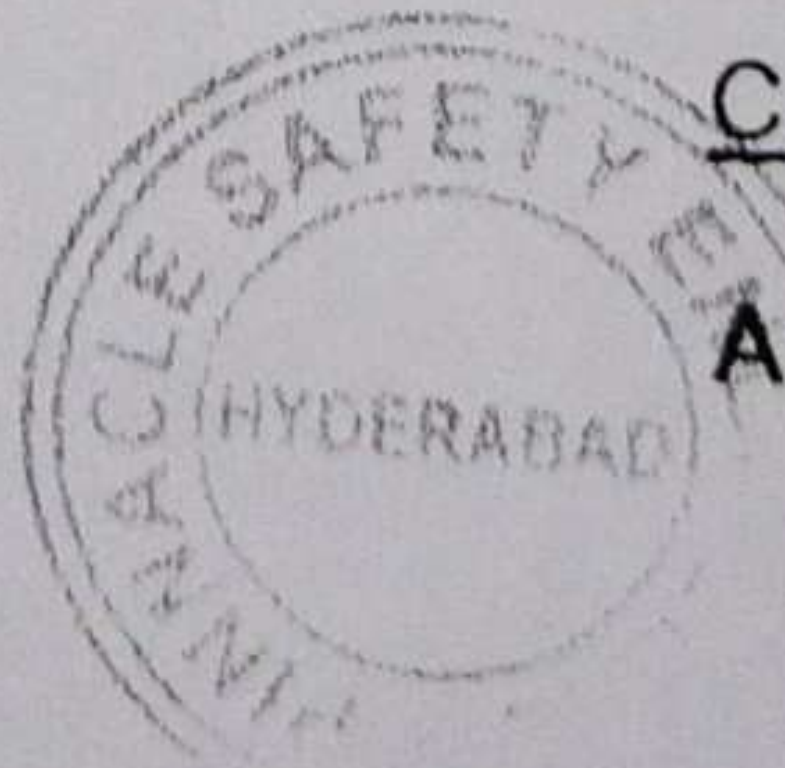
Electrical safety test passed as per IEC Stand 60601.1

Calibration Passed: Yes No

Calibration Done Date: 14.10.2023

Calibration Due Date: 13.10.2024

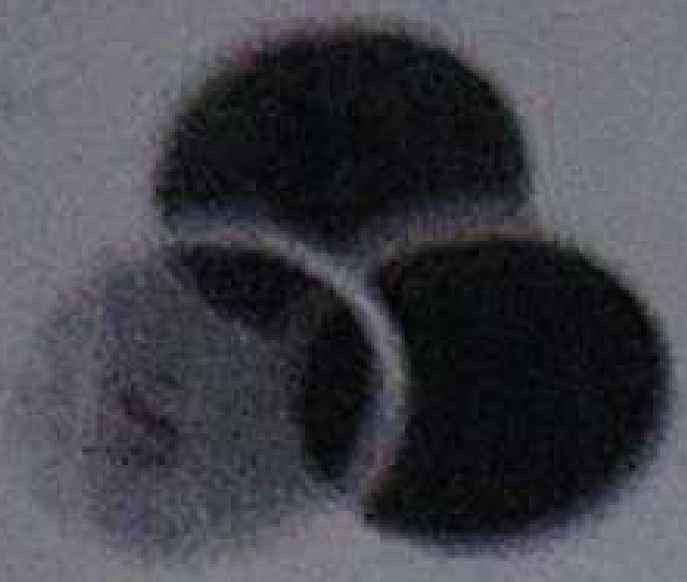
Calibrated By: Mr. D. Utpalendu, Engineer



Approved By:

[Signature]
Engineering Manager

The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.



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CALIBRATION CERTIFICATE OF MICROSCOPE

Issued to : JIMS Hospital, Shamshabad
 Certificate No. : PSE/CAL/JIMS/23/105
 Make : LABOMED Serial No : 12105131373
 Model No : Vision 2000 Date : 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2023	14.05.2024

TEST REPORT

Test	Type	Results	Limits
Main Voltage	Line Neutral	236.4	240v+-10%
Current consumption		0673mA	NA
Insulation resistance	Ground resistance	71.5M ohm	200m ohm
Earth leakage current	Open supply	41.4	1000 micro amps
Earth leakage current	Normal condition	26.8	500 micro amps
Earth leakage current	Open supply reverse mains	41.6	1000 micro amps
Earth leakage current	Normal condition, reverse mains	23.9	500 micro amps
Enclosure leakage current	Open supply	00	500 micro amps
Enclosure leakage current	Normal condition	00	100 micro amps
Enclosure leakage current	Open earth	28.5	500 micro amps
Enclosure leakage current	Open supply reverse mains	00	500 micro amps
Enclosure leakage current	Normal condition, reverse mains	00	100 micro amps
Enclosure leakage current	Open earth, reverse mains	26.6	500 micro amps

Electrical safety test passed as per IEC Stand 60601.1

Calibration Passed: Yes No

Calibration Done Date: 14.10.2023

Calibration Due Date: 13.10.2024

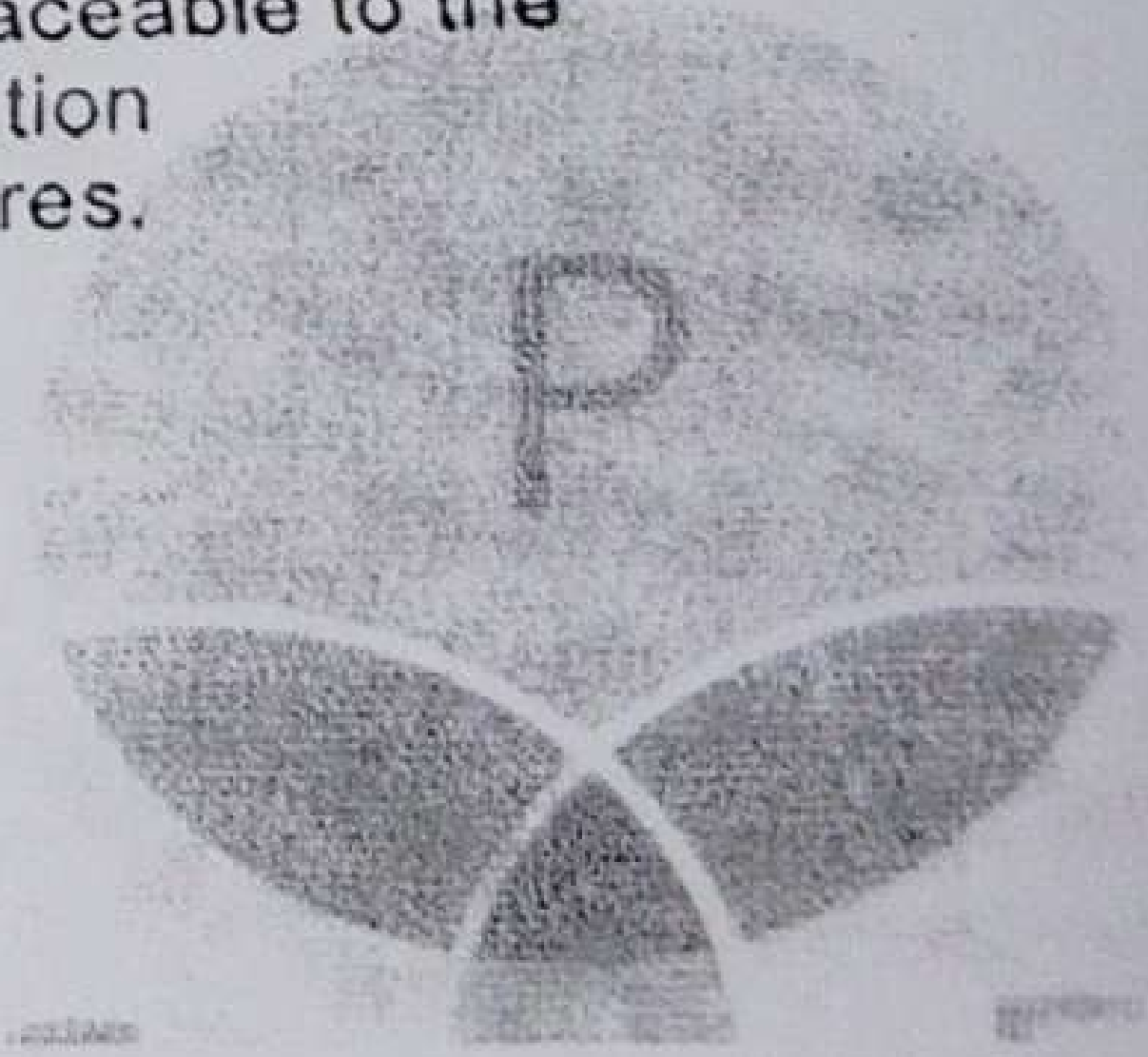
Calibrated By: Mr. D. Utpalendu, Engineer

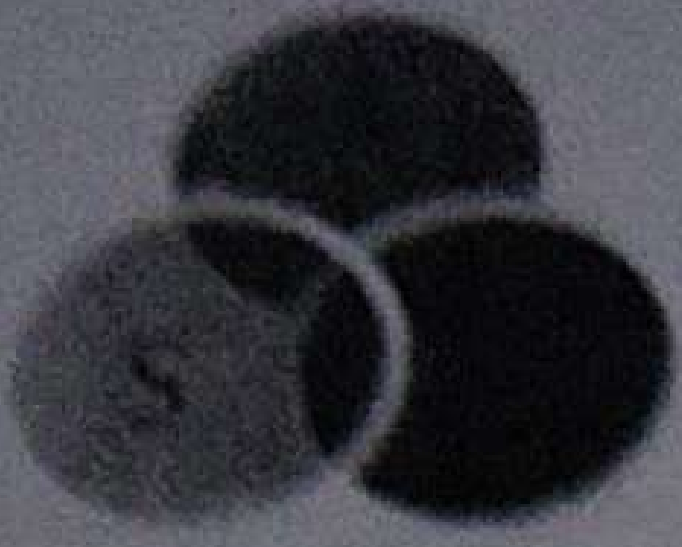
Approved By:

Engineering Manager



The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.





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CALIBRATION CERTIFICATE OF CENTRIFUGE

Issued to : JIMS Hospital, Shamshabad
 Certificate No : PSE/CAL/JIMS/23/102
 Make : Remi Serial No : ZBEN-12053
 Model No : R-8C Date : 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE/DT-01	Digital Tachometer	PSE/RPM/011	NA	10.10.2023	10.10.2024

Sr. No	CALIBRATION RESULT			Uncertainty RPM (±)
	Standard Reading RPM	Test Reading RPM	Error RPM(±)	
1	101.5	100	1.5	6.5
2	203.2	200	3.2	6.5
3	503.3	500	3.3	6.5
4	1002.4	1000	2.4	6.5
5	3004	3000	4	6.5
6	4004	4000	4	6.5

Note:

- The above UUC/DUC was Calibrated at Lab.
- Definition of UUC / DUC : Unit under Calibration / Device under Calibration.
- The reported Expanded Uncertainty is calculated at 95.45 % with covarger factor k = 2.
- Test reading given was the average of 5 Measurements.
- The report shall not be reproduced in full/part without prior permission of PSE.
- The report refers only to particular item(s) submitted for calibration.
- The calibration results reported are valid at the time of and under the stated conditions of the measurements.
- The Equipment was Calibrated without any adjustment.
- The above Expanded Uncertainty includes Repeatability, Stability, Resolution & Uncertainty of Measurements.
- PSE is not liable for any change in calibration data & performance specifications on account of malfunctioning of Standard / instrument / Equipments covered by this report due to damage caused to it after issuance of this report.
- All Precautions have been taken for any error or omission while calibrating the instruments and issuing this certificate. However PSE shall not be liable for any loss or liability that may be arised to any party in this regards.
- The Equipments user for Calibration were Calibrated and traceable to National / International Standards.

Calibration Passed: Yes No

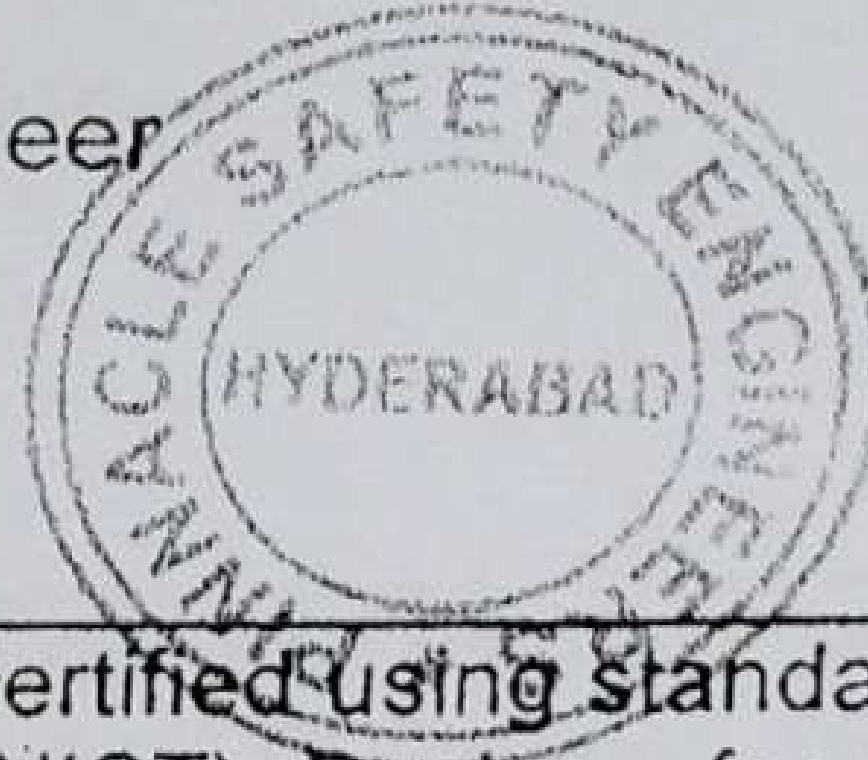
Calibration Done Date: 14.11.2023

Calibrated By: Mr. D. Utpalendu, Engineer

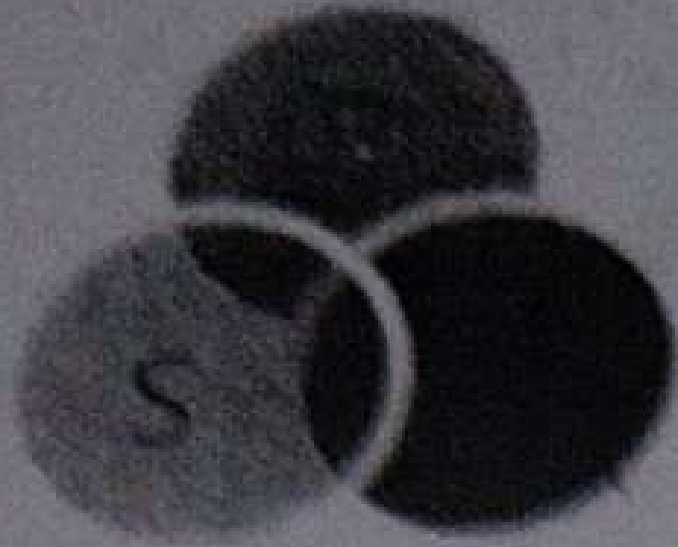
Calibration Due Date: 13.11.2024

Approved By:

Engineering Manager



The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.



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CALIBRATION CERTIFICATE OF TOURNIQUET

Issued to : JIMS Hospital, Shamshabad
 Certificate No. : PSE/CAL/JIMS/23/132
 Make : NA
 Model No : NA
 Serial No : NA
 Date : 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 02	ELECTRICAL SAFETY ANALYSER	ESA - 612	211-1026	15.05.2023	14.05.2024

Electrical safety test report

Test	Type	Results	Limits
Main Voltage	Line Neutral	236.4	240v+-10%
Current consumption		0673mA	NA
Insulation resistance	Ground resistance	71.5M ohm	200m ohm
Earth leakage current	Open supply	41.4	1000 micro amps
Earth leakage current	Normal condition	26.8	500 micro amps
Earth leakage current	Open supply reverse mains	41.6	1000 micro amps
Earth leakage current	Normal condition, reverse mains	23.9	500 micro amps
Enclosure leakage current	Open supply	00	500 micro amps
Enclosure leakage current	Normal condition	00	100 micro amps
Enclosure leakage current	Open earth	28.5	500 micro amps
Enclosure leakage current	Open supply reverse mains	00	500 micro amps
Enclosure leakage current	Normal condition, reverse mains	00	100 micro amps
Enclosure leakage current	Open earth, reverse mains	26.6	500 micro amps

Electrical Safety Test Passed as per IEC Standard 60601.1

Calibration Passed: Yes No

Calibration Done Date: 14.10.2023

Calibration Due Date: 13.10.2024

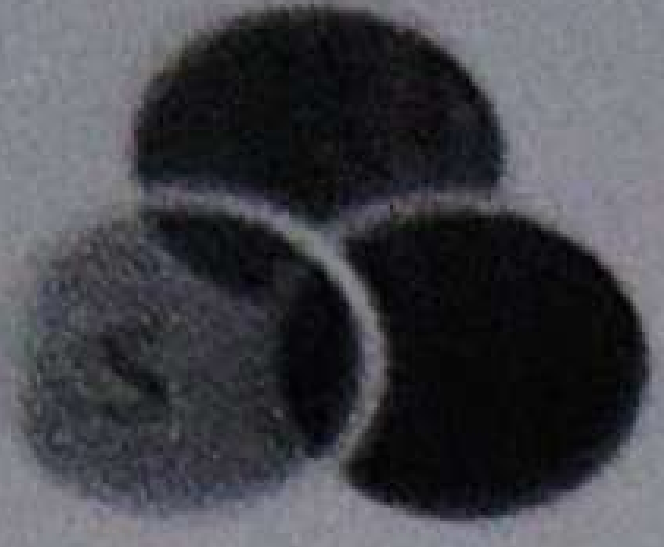
Calibrated By: Mr. D. Utpalendu, Engineer



Approved By:

[Signature]
Engineering Manager

The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.



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CALIBRATION CERTIFICATE OF ELECTROLYTE ANALYZER

Issued to : JIMS Hospital, Shamshabad
 Certificate No. : PSE/CAL/JIMS/23/131
 Make : NA
 Model No : ST-200
 Serial No : STAQW6904
 Date : 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 02	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2023	14.05.2024

Electrical safety test report

Test	Type	Results	Limits
Main Voltage	Line Neutral	236.4	240v+-10%
Current consumption		0673mA	NA
Insulation resistance	Ground resistance	71.5M ohm	200m ohm
Earth leakage current	Open supply	41.4	1000 micro amps
Earth leakage current	Normal condition	26.8	500 micro amps
Earth leakage current	Open supply reverse mains	41.6	1000 micro amps
Earth leakage current	Normal condition, reverse mains	23.9	500 micro amps
Enclosure leakage current	Open supply	00	500 micro amps
Enclosure leakage current	Normal condition	00	100 micro amps
Enclosure leakage current	Open earth	28.5	500 micro amps
Enclosure leakage current	Open supply reverse mains	00	500 micro amps
Enclosure leakage current	Normal condition, reverse mains	00	100 micro amps
Enclosure leakage current	Open earth, reverse mains	26.6	500 micro amps

Electrical Safety Test Passed as per IEC Standard 60601.1

Calibration Passed: Yes No

Calibration Done Date: 14.10.2023

Calibration Due Date: 13.10.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:

Engineering Manager

The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.



Pinnacle Safety Engineers

(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF BIOCHEMISTRY ANALYSER

Issued to: JIMS Hospital, Shamshabad
 Certificate No: PSE/CAL/JIMS/23/107
 Make: ERBA/TRANSASIA
 Model No: Chem SX
 Serial No: N140566
 Date: 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2023	14.05.2024

TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS

TEST	RESULTS	LIMITS
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω
Equipment current	1.4A	0 to 20.0 A ac rms
Insulation resistance	2 M Ω	+/-2% +0.2 M Ω
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 μA
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 μA
Lead isolation	0.4Ma	0.0 to 1999 μA
Differential Leakage	0.1Ma	0.0 to 1999 μA
Direct Equipment Leakage	0.3μA	0.0 to 1999 μA
Direct applied part Leakage	0.7Ma	0.0 to 1999 μA
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma
Point to point leakage, Voltage and Resistance	0.2μA, 0.2v & OLΩ	+/-2% +0.2V

Electrical safety test passed as per IEC Stand 60601.1

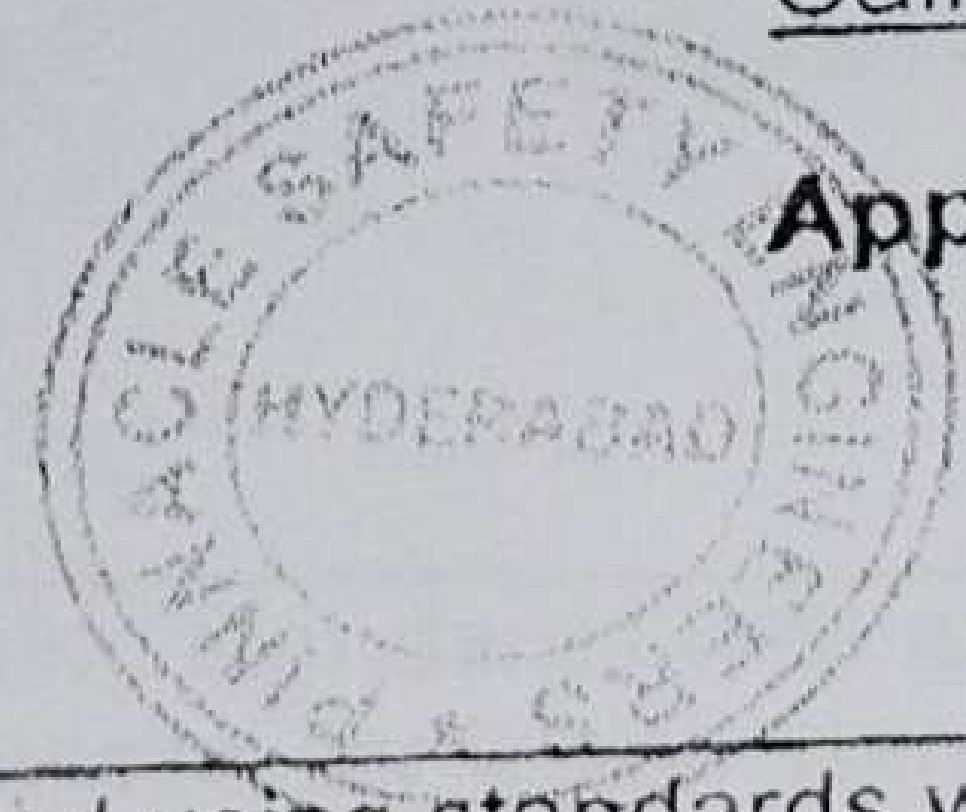
Calibration Passed: Yes No

Calibration Done Date: 14.11.2023

Calibration Due Date: 13.11.2024

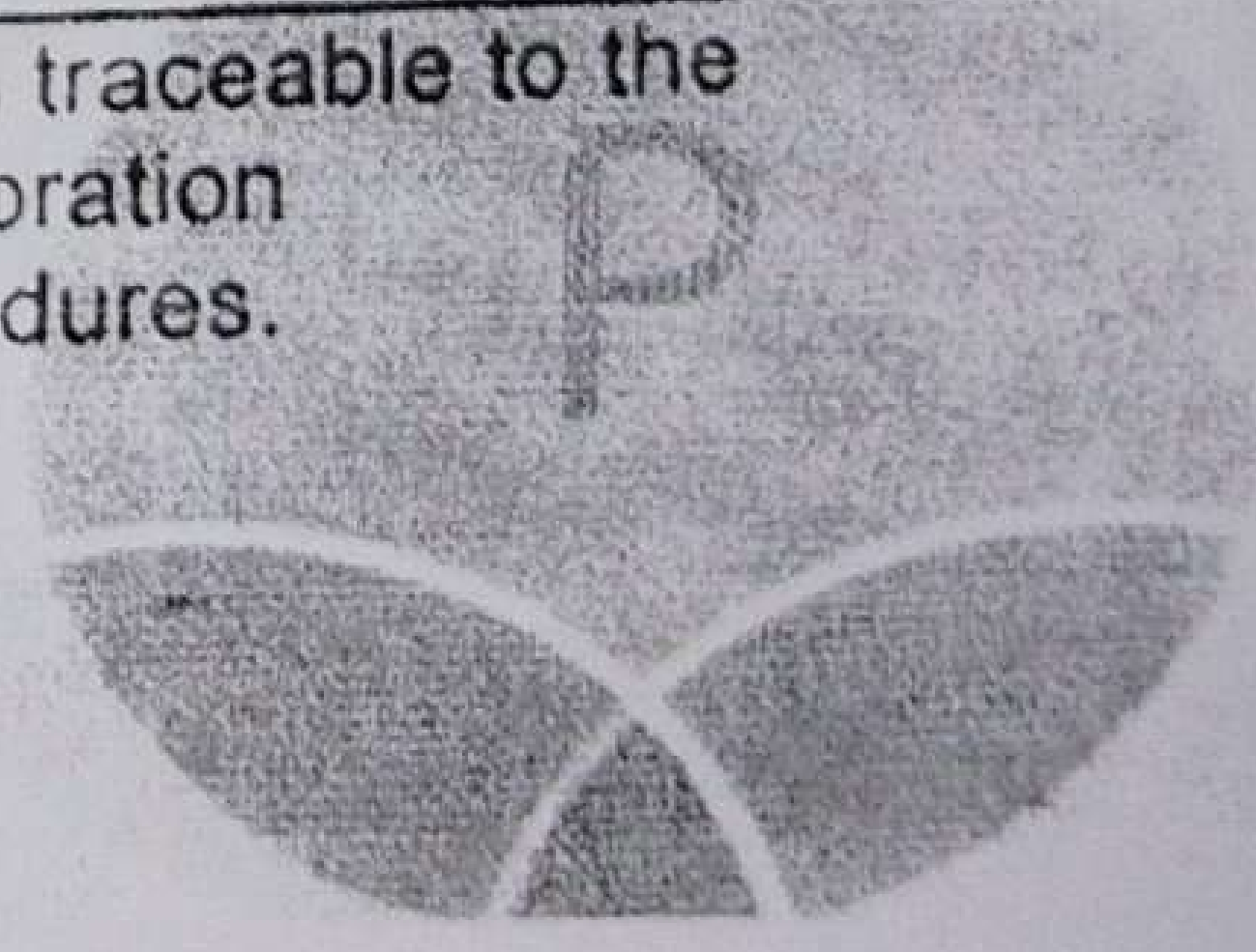
Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:



Engineering Manager

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Pinnacle Safety Engineers

(Expert in Healthcare Safety Solutions)

CALIBRATION CERTIFICATE OF BIOCHEMISTRY ANALYSER

Issued to : JIMS Hospital, Shamshabad
Certificate No : PSE/CAL/JIMS/23/108
Make : ERBA/TRANSASIA Serial No : N-120810
Model No : CHEM-5 Plus V2 Date : 14.10.2023

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	PSE / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2023	14.05.2024

TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS

TEST	RESULTS	LIMITS
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω
Equipment current	1.4A	0 to 20.0 A ac rms
Insulation resistance	2 M Ω	+/-2% +0.2 M Ω
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 μA
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 μA
Lead isolation	0.4Ma	0.0 to 1999 μA
Differential Leakage	0.1Ma	0.0 to 1999 μA
Direct Equipment Leakage	0.3μA	0.0 to 1999 μA
Direct applied part Leakage	0.7Ma	0.0 to 1999 μA
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma
Point to point leakage, Voltage and Resistance	0.2μA,0.2v&OLΩ	+/-2% +0.2V

Electrical safety test passed as per IEC Stand 60601.1

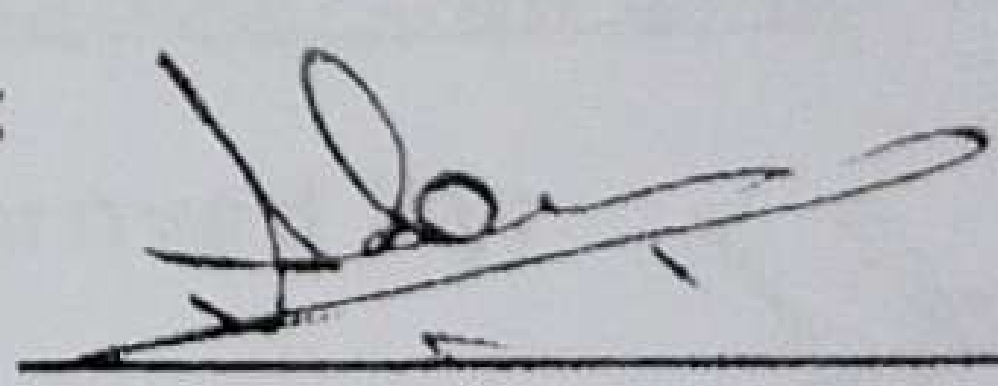
Calibration Passed: Yes No

Calibration Done Date: 14.10.2023

Calibration Due Date: 13.10.2024

Calibrated By: Mr. D. Utpalendu, Engineer

Approved By:


Engineering Manager

The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.