

000028 GLU 75.17 mg/dl

08/04/21 05:43:19 LAB TECH R P DJHA

CRE DELTA STD D.D. 0.0858 CONC :2 mg/dL FACTOR:23.310

MEAH 1-70

RAHUE 1120 - 2.20

000029 CRE 2.24 mg/dL H

08/04/21 05:50:26 LAB TECH R P 04HA 000030 GPT 25.28 U/L

Certificate of Calibration

Customer Name: FAMILY HOSPITAL AND RESEARCH CENTER, DEPARTMENT OF PATHOLOGY, KANPUR, U.P.

Model: Semi-Automated Bio Chemistry Analyzer Erba CHEM 5 PLUS V2

Serial No.: N110517

Erba

Calibration done date: 08/04/2021

Next Calibration Date: 07/04/2022

Lab In charge: Dr. A.K. Gupta

This is to certify that above mentioned product has been verified of calibration By Checking Lamp Voltage Checking gain of Photo meter for all Filters Checking sipping volume of peristaltic pump- 2195 Cuvette temperature physical: 37°C

	PRE-	
Filter	CHANNEL	
340	169811	
405 168531		
450	168647	
505	167634	
546	167981	
578 166824		
630 165952		
670	165783	

Followed by calibration of all the three types of chemistries (picked up GLI CREAT and SGPT) and QC run with satisfactory values of QC

Calibration at site performed by Mr. Saurabh Tripathi

Authorized Signatory (Mr. Saurabh Tripathi) Sr. Service Engineer For Transasia Bio-Medicals Ltd.

Saurath

OFFSET FILTER GAIN 340 011457 -03548 405 005897 -03373 450 014509 -03512 505 029311 -03483 546 026463 -03257 578 022641 -03414 630 040871 -03483 670 042116 -03319

TRANSASIA BIO-MEDICALS LTD.

ai Sasia House' & Chandival Studio Road, Andheri (E., Muri Dai - 400.072 Tel. (022) 40309000, Fax. (022) 28 Il mail: transatia@transasta.ro.in Website: awai transasta.ro.in

08/04/21 20:00:38 LAB TECH R P 0.3HA

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TRANSASIA ERBA Chem-5 PLUS v2

Erba

SEMI-AUTOMATED BIO-CHEMISTRY

ANALYZER

INSTRUMENT QUALIFICATION DOCUMENT

FOR

"FAMILY HOSPITAL AND RESEARCH CENTER, DEPARTMENT OF PATHOLOGY, KANPUR,

U.P. "

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Installation Qualification Erba Chem5 PLUS v2

Customer Name	FAMILY HOSPITAL AND RESEARCH CENTER, DEPARTMENT OF PATHOLOGY, KANPUR, U.P.
Address	: A-9., AWAS VIKAS, HANSPURAM, HAMIRPUR ROAD, NAUBASTA , KANPUR
Instrument Model	: Semi-Automated Bio Chemistry Analyzer Erba CHEM-5 PLUS v2

Serial Number : N110517

Initial Inspection of the unit carried out and the details are as follows:

System Condition Report:

Found the System to have been delivered in satisfactory condition.

Confirmed and found all the required accessories as per dispatch note as per table below.

Sr No.	Description	Qty
1.	POWER CORD 3 PIN 250V/6A	1
2.	USER MANUAL - Chem-7 New Scheme (Domestic)	1
3.	THERMAL PRINTER PAPER ROLL (57mm x30mt.)	1
4.	RECTANGULAR POLY. MICRO CUVETTE	5
5.	ALLEN KEY 3MM	1
6.	T200y Pipet Tips Series 200ul(Yellow)	100
7.	T1000b Pipet Tips Series 1000ul(Blue)	100
8.	ROUND GLASS MICROCUVETTES	5
9.	DUST COVER FOR Chem-7	1
10.	TEST TUBE HOLDER (with O-ring)	1
11.	Pipette Stand (Plastic)	1
12.	PROLINE SINGLE CHANNEL VARAIBLE VOLUME MECHANICAL PIPETTES 5UL - 50UL (CAT. NO 720020)	1
13.	PROLINE SINGLE CHANNEL VARAIBLE VOLUME MECHANICAL PIPETTE 100UL - 1000UL (CAT. NO 720060)	1
14.	ERBA WASH (4 X 50 ML)	1

Installation Procedure & Checklist Attached for records.

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External Requirements for Installation:

- 1. Input voltage of 220V-240V / 50Hz or 60Hz.
- 2. Perfect earthing was provided at power source with all applicable local requirement (A grounded, power plug only should be used). The voltage between earth and neutral should not exceed more than 3V.

Installation Certificate for

Erba

This is to certify that the Instrument Serial No. N110517 is successfully installed and commissioned at FAMILY HOSPITAL AND RESEARCH CENTER, DEPARTMENT OF PATHOLOGY, KANPUR, U.P. and the Installation Protocol / checklist has been successfully completed for the above instrument.

Sourceston

For TBM, Technical Services Department

Name: MR. Saurabh TripathiDesignation: Sr. Service Engineer

Date : 30/06/2011

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Installation QualificationErba Chem5 PLUS v2

Carried out all the Installation Procedures as per the Installation Procedure & Checklists.

Connected the Peristaltic Pump tubing correctly & placed the end of the waste tubing coming out of the analyzer into the waste bottle provided for collecting waste.

Carried out all the necessary system checks and tests.

Performed all due maintenance activities.

Handed over the Instrument for Operators Training & Qualifications

For TBM, Technical Services Department

Name: MR. Saurabh Tripathi Designation: Sr. Service Engineer Date: 30/06/2011

Sawath

Installation Report Erba Chem 5 plus v2

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Customer Name : FAMILY HOSPITAL AND RESEARCH CENTER, Department of Pathology , Kanpur UP

Department: PATHOLOGYContact Person: Dr. A.K. Gupta

Erba

Instrument Model : Erba Chem-5 plus V2 Serial Number : N110517 Date of Installation: 30/06/2011

The instrument was installed and was found to be working satisfactorily. Preliminary Customer Training was provided and standardization of some parameters were done. The results were found to be within the expected range and System found to be working satisfactorily.

TBM, Technical Services Department	Customer Detail	
Name : Mr. Saurabh Tripathi	Name	: Dr. A.K. Gupta
Designation: Sr. Service Engineer Signature :	Signature	Coeeg
Date : 30/06/2011	Date	: 30/06/2011

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Instrument Setup

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- 1. Assembled the instrument accessories.
- 2. Connected the 3/2 pin cord (with earth terminal) of the external SMPS to the mains socket & checked the output of the SMPS it should be 18V DC +/ - 1.0 V DC.
- 3. Connected the Peristaltic Pump tubing & placed the end of the waste tubing coming out of the analyzer into the waste bottle provided for collecting the waste.
- 4. Mounted the printer paper.

TBM, Technical Services Department

: Mr. Saurabh Tripathi Name Designation: Sr. Service Engineer Sauraith Signature :

Customer Detail

: Dr. A.K. Gupta Name

Signature

Date

: 30/06/2011

Date

: 30/06/2011

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Operational Qualification For Erba Chem5 plus v2

System Certification:

Study data has determined that the System described in this document either meets all criteria outlined in this Operational Protocol, or exceptional conditions have been identified and documentation included.

Exceptional conditions, if any, have been addressed.

The System is ready for specific usage.

Protocol Performed By:

Name: Mr. Saurabh Tripathi Designation: Sr. Service Engineer

Customer Authorization: Name: Dr. A.K. Gupta

Company Representative Sign:-

Customer Sign:-

Date:- 30/06/2011

Date:- 30/06/2011

Operational Qualification for Erba Chem5 plus

v2

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FUNCTIONAL CHECK :

1. PUMP CALIBRATION

(Calibrate the peristaltic pump and record the count range from 1800 to 2700)

2. PRINTER TEST

(To carry out printer function test from maintenance menu and to confirm that all characters printed w/o gap & are clearly readable:- Last line must be above paper cutter)

3. KEY FUNCTIONS

(Confirm all keys function & keys functioning are smooth)

4. BUZZER

(Buzzer beeps when key is pressed)

5. PERISTALIC PUMP ASSEMBLY

(Confirm rotor rotates smoothly without jerk, and placement of peristaltic tubing Remains at the centre of the bush and should not be touching the end support or rotor base)

6. TEMPERATURE CHECK

Cuvette temperature physical: 37°C

Temperature Range: (A) 37° C± 0.1°C (B) 57.5 KΩ to 59.0 KΩ using temperature Jig)

7. GAIN CHECK FOR ALL FILTERS

	PRE-
Filter	CHANNEL
340	169783
405	168544
450	168273
505	167871
546	167352
578	166253
630	165241
670	165734

2	195	
and a	110	

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- 8. Checked Hardware test and found OK.
- 9. Checked Date & time and found OK.
- 10. Checked printer test and found OK.



TBM, Technical Services Department

Name : Mr. Saurabh Tripathi Designation : Sr. Service Engineer

wash a

Date

Signature

: 30/06/2011

Customer Details

Name : Dr. A.K. Gupta

Signature Ol

Date: 30/06/2011

Erba



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000018 GLU 90.12 mg/dL

Performance Qualifications for Erba Chem5plusV2

1. PRECISION CHECK:

(After performing Glucose calibration, prepare Glucose reaction solution of one concentration of around 5ml and aspirate this reaction 500µl 10 times and note down readings and calculate CV. CV should be below 3%)

	Sr. No.	Concentration mg/dl 83.92		30/06/11 01:13:46
	1. 2.	84.76		LAB TECH R P OJHA
	3.	85.52		000009 GLU 83.92 mg/ dl
	4.	86.03		000003 620 65.02
	5.	86.13		
	6.	87.06		
	7.	87.89		000010 GLU 84.76 mg/dl
	8.	88.65		000010 020 0111
	9.	89.74		
	10	90.12		
	Mean	86.982		000011 GLU 85.52 mg/dl
	SD	2.085		000011 020 0000
	CV%	2.397		
accep	esult for a tance crit	ll the performance tests eria. Hence the instrume med By:- Mr. Rajat Shar	carried out for the instrument meets the ent is qualified for the performance. na	000012 GLU 86.03 mg/dL 000013 GLU 86.13 mg/dL 000014 GLU 87.06 mg/dL
ТВ	M, Techr	nical Services Departme	t CUSTOMER DETAIL	000015 GLU 87.89 mg/dl
Na De Sig	me signation nature	ical Services Department : Mr. Rajat Sharma : Application Specialist : Jarcharm 30/06/2011	Customer Detail Name : Dr. A.K. Gupta Signature : Oug Date : 30/06/2011	000016 GLU 88.65 mg/dl 000017 GLU 89.74 mg/dl