

Transasia Bio-Medicals Ltd., 109-110, 1st Floor8, Deep Shikha Building, Rajendra Place, New Delhi - 110 008 Tel.: 011 - 25732223 Fax: 011-25785451 Email: nz1@transasia.co.in CIN: U33110MH1985PLC036198



TRANSASIA ERBA Chem 5X NS

SEMI-AUTOMATED BIO-CHEMISTRY
ANALYZER
INSTRUMENT QUALIFICATION DOCUMENT
FOR

"Orbit Health Care & Diagnostic Centre, Gurgaon"

Page 1 of 9





Tel.: 011 - 25732223 Fax: 011-25785451 Email: nz1@transasia.co.in CIN: U33110MH1985PLC036198 Installation Qualification for Erba Chemis



Customer Name

: Orbit Health Care & Diagnostic Centre, Gurgaon

Address

: 325/11, Old Railway Road, Opp. Gupta Medicos, Gurgaon

Instrument Model

: Chem5X

Serial Number

: S2105131

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-5X 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-5 XNS	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.

Erba[®]



Transasia Bio-Medicals Ltd., 109-110, 1st Floor8, Deep Shikha Building, Rajendra Place, New Delhi - 110 008 Tel.: 011 - 25732 External Requirements for Installation U33110MH1985PLC036198

- 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 regime earth and neutral should not exceed more than 3V.

Installation Certificate for

This is to certify that the Instrument Serial No. S2105131 is successfully installed and commissioned at ______and the Installation Protocol / checklist has been successfully completed for the above instrument.

For TBM, Technical Services Department

Name

: VARUN ARORA Vasans

Designation

: Sr, Service Engineer

Date

1/8/22







Tel.: 011 - 25732223 Finstallation Qualification for Erba Chema

Carried out all the Installation Procedures as per the Installation Procedure & UNMATCHED SERVICE SINCE 1979...

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: VARUN ARORA Vagues

Designation: Sr. Service Engineer

Date: 1/2/22

Page 4 of 9





Installation Report for Erba Chem

: Orbit Health Care & Diagnostic Centre, Gurgaon **Customer Name**

UNMATCHED SERVICE SINCE 1979...

Department

: Lab

Contact Person

: Mr. Pawan

Instrument Model: Erba Chem-5X NS

Serial Number : S2105131 Date of Installation: 18-06-21

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

: Varun Arora

Designation:

Sr. Service Engineer

Signature :

Date

Customer Detail

Signature :

Designation: Owner
Signature: Date: 01/08/22



Transasia Bio-Medicals Ltd., 109-110, 1st Floor8, Deep Shikha Building, Rajendra Place, New Delhi - 110 008 Tel.: 011 - 25732223 FinstrumentarSetup^{U33110MH1985PLC036198}

UNMATCHED SERVICE

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
- 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

: Varun Arora

Designation: Sr. Service Engineer

Signature : \ O46000

Date : 1/8/22 **Customer** Detail

Designation: Owner
Signature: Date: 01/08/22



Operational Qualification For Erba Cheng

System Certification:

UNMATCHED SERVICE SINCE 1979...

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. Ravi Kumar Sah

Designation: Application Specialist

Customer Authorization:

Name:

Designation:

Company Representative Sign:-

Date:- 1/8/22

Customer Sign:-_

Date:- 0//18





Tel.: 011 - 25732 Operational Qualification for Erba Chem

[A] FUNCTIONAL CHECK:

UNMATCHED SERVICE SINCE 1979...

2175

1. PUMP CALIBRATION

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

2. PRINTER TEST

OK

(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

OK

(Confirm all keys function & keys functioning are smooth)

4. BUZZER

OK

(Buzzer beeps when key is pressed)

5. PERISTALIC PUMP ASSEMBLY

014

(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 K Ω to 59.0 K Ω using temperature Jig)

Check temperature in RUN TEST mode for temperatures:

1. 37° C: _____ 2. 30° C: _____ 3. 25° C: ____

7. GAIN CHECK FOR ALL FILTERS

Filter	340	405	505	546	578	630	Range
Gains	155K	167K	162K	153K	145K	158K	30000-200000
Offset	ОК	ОК	ОК	ОК	ОК	ОК	-5000 to +5000

8. Checked Hardware test and found OK.

OIC

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Page 8 of 9



Transasia Bio-Medicals Ltd., 109-110, 1st Floor8, Deep Shikha Building, Rajendra Place, New Delhi - 110 008
Tel.: 011 - 25732223 9a)Checked Dater & itime and found of W: U33110MH1985PLC036198

10. Checked printer test and found OK.



TBM, Technical Services Department

: Mr. Ravi Kumar Sah

Designation: Application Specialist

Signature

Date

Customer Details

Name : Fower kumpe

Designation: Owner

Signature : 01/08/22

Page 9 of 9





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Performance Qualifications for Erba Chem5

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				
1.	100.3				
2.	100.5				
3.	100.4				
4.	100-2				
5.	100.2				
6.	100.4				
7.	100.5				
8.	100.9				
9.	100.9				
10	100.9				
Mean	100.6				
SD	0.5				
CV%	0.5 4.				

Protocol performed By:-

TBM, Technical Services Department

CUSTOMER DETAIL

TBM. Technical Services Department

: Mr. Ravi Kumar Sah

Designation: Application Specialist

Signature :

Date

Customer Detail

Name: Pawar kunar
Designation: Owner
Signature: B
Date: 01/08/22

Page 10 of 9





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Ref: TBMNZ-1/430/21-22

Dated: 18-06-21

Calibration Certificate

Customer Name : Orbit Health Care & Diagnostic Centre, Gurgaon

Model : Erba Chem 5X

Serial No. : S2105131

Calibration Date : 18-06-21

Calibration Due Date: 17-06-22

This is to certify that we have calibrated the Semi Automated Biochemistry Analyser, Model: Erba Chem 5X bearing Sr. No. S2105131 and on inspection of the instrument it is observed that the results are well within the range and instrument is working fine Instrument is properly calibrated

Thanking you,
For **Transasia Bio-Medicals Ltd.**

Varun Arora

Sr. Service Engineer





Transasia Bio-Medicals Ltd., 109-110, 1st Floor8, Deep Shikha Building, Rajendra Place, New Delhi - 110 008
Tel.: 011 - 25732223 Fax: 011-25785451 Email: nz1@transasia.co.in CIN: U33110MH1985PLC036198



Ref: TBMNZ-1/765/22-23

Dated: 18-06-22

Calibration Certificate

Customer Name : Orbit Health Care & Diagnostic Centre, Gurgaon

Model : Erba Chem 5X

Serial No. : S2105131

Calibration Date : 17-06-22

Calibration Due Date: 16-06-23

This is to certify that we have calibrated the Semi Automated Biochemistry Analyser, Model: Erba Chem 5X bearing Sr. No. S2105131 and on inspection of the instrument it is observed that the results are well within the range and instrument is working fine Instrument is properly calibrated

Thanking you,

For Transasia Bio-Medicals Ltd.

Varun Arora

Sr. Service Engineer



01/08/22 19:17:03

000108 AST 47:91 IU/ H

01/08/22 19:23:06

000109 ALT 49.33 IU/1 H LINEAR REACTION

01/08/22 19:29:47

000110 ALP 98.95 IU/1 LINEAR REACTION

01/08/22 19:33:55

01/08/22 20 32:13

000123 URE 41.21 mg/dl LINEAR REACTION

01/08/22 20:35.15

000124 CRE 1.30 mg/dl LINEAR REACTION

01/08/22 20:38:17

000125 ALB 2.41 g/dl L

01/08/22 20:42:30

000126 CHO 139.9 mg/dl

01/08/22 20:47:04

000127 TRIG 70.50 mg/dl

01/08/22 20:48:12

000128 TPRO 6.06 g/dl L

01/08/22 20:50:18

000129 URIC 5.25 mg/dl

00230 6	w	100.3	mg/d1	ħ
000291 0	L U	100.5	=9/d1	K
000292 (aυ	100.4	mg/d1	it
000293	GLU	100.2	≋g/d 1	Н
000234	αu	100.2	ng/d)	Н
000295	đU	100.4	PQ/d)	Н
00036	2.11	100.5	mg/dl	Н
000291	លប	100.9	*9/d1	н
BESDSG	Θij	100.9	ma/d1	4
teezaa	(ALI)	101.0	maj 181	44

ERBA NORM

CONTROL FOR BIOCHEMISTRY

Assayed Values for ERBA Reagents.



Website: www.erbamannheim.com
LIQUID STABLE REAGENTS / POWDER REAGENTS & SYSTEM PACK REAGENTS IN NORMAL RANGE For in vitro diagnostic use only

INTENDED USE **ERBANORA**

PRINCIPLE OF THE PROCEDURE
This human serum control is to be used for assessment of method precision & techniques in This human serum control is to a technique of membra precision a technique use and treated in the same way as an unknown specimen that would be used in accordance

The results obtained for the control are to be compared with the assigned values given in the assay data* section of the insert and an evaluation made by standard statistical techniques to determine if the procedure is within the control limits.

It is recommended that each laboratories establish its own means and acceptable ranges Values provided in the Insert should be used as reference.

COMPOSITION

The Control serum is prepared from human serum with chemical additives and tissue extracts of human and animat origin. Bacteriostelic agents have been added. The control is provided in tyophilized form fc: increase stabing.

WARNING

It is recommended that this product be handled with same precautions used for patient specimen

The blood donations used for production were tested by CE-marked test kits and found to be non-reactive for HBsAg, anti-HIV 1/2 and anti-HCV. In addition HCV and HIV have been tested by PCR. Despite of that the danger of infection for biological material can not be excluded with certainty.

During the work all principles of personal hygiene are to be maintained.

When the bottle is broken the contaminated place must be disinfected

RECONSTITUTION

 Allow the visit and AQUA-4 (supplied in the kit) to attain room temperature. Add exactly
 The control of the control o 5 ml of AQUA-4 and allow to stand for 30 minutes at rest in a light-protected place. Swit specializing Available comparison.

Swirt the centents gently to ensure homogenity before using as sample for testing. Avoid formation of foam.

STORAGE & STABILITY

Prior to reconstitution

The controls should be stored at 2-6°C and is stable till the expiry date printed on the label. Protect from links

After reconstitution

The constituents when protected from light and contamination are abble

1 day

01+18 "10+25 °C

1 week

at +2 to+8 °C (Bilirubin: 1 day)

1 month

at -20 °C

LIMITATIONS

The results obtained using the control are dependent upon several factors. Erroneous results can occur from reconstitution inaccuracy and the technique errors associated with the assay procedure. The serum is not compatible for use with o- Toludine Glucose procedures.

Improper storage or handling of the control can also affect the results. If there is a visible evidence of microbial growth in a vial, do not use that vial.

Assayed Values Using LIQUID STABLE REAGENTS / POWDER REAGENTS LOT No.: S062243 EXPIRY: 11/2024 Values for Liquid Reagents Values for Powder Reagents UNITS ABBR. **PARAMETERS** METHODOLOGY Value 1SD Interval 1 SD Value Interval ALB BCG Albumin 3.41 g/dl 2.90-3.92 0.17 AMP AIP Alkaline phosphalase 137 101.31 81.05-121.57 77.58-116.38 6.47 6.75 96.98 ALT/GPT ALT/SGPT IFCC Un 57.47 45.98-68.96 3.46 3.83 51.87 41.50-62.24 AMY Amylase CNPG3 U/I 68.78 55.02-82.53 4.59 3.21 48 20 38.56-57.84 AST/GOT AST/SGOT **IFCC** U/I 51.31 41.05-61.57 3.42 46.76 37.41-56.11 3.12 BID Bilirubin Direct DIAZO mg/dl 0.96 0.72-1.19 0.08 BIT Bilirubin Total DIAZO mg/dl 1.47 1.10-1.83 0.12 ARSENAZO III 7.93 mg/dl 6.34-9.51 0.53 CA Calcium OCPC mg/dl 7.78 6.22-9.33 0.52 CL Chloride MERCURIC THIOCYANATE mmol/I 105 00 89.25-120.75 5.25 CHOL Cholesterol CHOD-PAP mg/dl 129.56 110.13-148.99 6.48 160.10 136.09-184.12 8.01 Creatinine kinase NAC CK DGKC 11/1 113.73 85.30-142.16 9.48 120.50 90 38-150 63 10.04 CK MB Creatinine kinase MB IMMUNO U/I 30.64 22.98-38.30 2.55 20.50 15.38-25.63 1.71 CREA Creatinine JAFFE'S mg/dl 1.03 0.82-1.25 0.07 GLUPA-C GGT Gamma-glutamyl transferase U/I 30 51 22.94-38.09 2.53 30.13 22.65-37.61 2.49 GOD-POD GLU Glucose mg/dl 88.90 75.57-102.24 4.45 92.14 78.32-105.96 4.61 DIRECT mg/dl 39.13 31.31-46.96 2.61 HDL HDL Cholesterol Phospholungstic Acid mg/dl 16.00 12.8-19.2 1.07 LDL Cholesterol DIRECT LDL mg/dl 59.33 47,47-71,20 3.96 Lactate dehydrogenase-P DGKC UI LDH-P 386.32 309.06-463.58 25.75 289.50 231.6-347.40 19.30 ADVANCE HEMOGEN LIP Lipase U/I 58 03 43.53-72.54 4.84 MG Magnesium XYLIDYL BLUE mg/dl 1.64-2.26 1.95 0.10 Phosphorus UV-MOLYBDATE 4 54-6.14 PHOS mg/dl 5 34 0.27 **Total Protein** BIURET g/dl 6.39 5.43-7.35 0.32 TP 93.52 **Triglycerides** GPO mg/dl 79 49-107 55 4 68 TGL Triglycerides -SR **GPO** mg/dl 124.50 105.83-143.18 6.23 73.00 62 05-83 95 3.65 Urea 40.50 34.43-46.58 2.03 UREASE-GLDH UREA mg/dl 40.36 34.30-46.41 2.02 Uric Acid URICASE mq/dl 5.50 4.67-6.32 0.27 UA Uric Acid-SR mg/dl 5.53 4.70-6.36 0.28 5.24-7.09 0.31

* Note: a) For End Point Assay-Values obtained after calibration using respective calibrator. b) For Bilirubin and Kinetic Assay-Values obtained using fixed factor. c) Assay Temperature =37°C

Manufactured by: TRANSASIA BIO-MEDICALS LTD., Khatiyan No. 235, Khasra No. 24, Namthang Elaka, Mahakuma Namchi, South Sikkim – 737132. In Technical Collaboration with . EDDA diagnostics Mannheim GmbH Mallaure Co. 20 D. 19948 Mannheim (Germany