TRANSASIA®

Transasia Bio - Medicals Ltd., Transasia House, 8 Chandivali Studio Road, Andheri (E) Mumbai - 400 072
Tel: +91 22 4030 9000 Fax: +91 22 2857 3030 Email: transasia@transasia.co.in CIN: U33110MH1985PLC036198



Calibration Certificate

Customer Name: Checkpoint Healthcare Pvt Ltd

Address of Customer: Mayur Vihar Delhi

Model

: CHEM5x

Serial No.

: S2208181

Calibration Done Date

:15/07/2023

Calibration Due Date

: On or Before 14/07/2024

This is to certify that we have calibrated the Semi-Automatic Biochemistry Analyzer Model: CHEM5x bearing Sr. No. S2208181 and on inspection of the instrument gains. It is observed that the results are well within the range and instrument is working fine.

Thanking you,

For

Transasia Bio-Medicals Ltd.

Lavkush Lal *

Sr. Application Specialist

www.erbamannheim.com

(Erba*



Transasia Bio - Medicals Ltd., Transasia House, 8 Chandivali Studio Road, Andheri (E) Mumbai - 400 072
Tel: +91 22 4030 9000 Fax: +91 22 2857 3030 Email: transasia@transasia.co.in CIN: U33110MH1985PLC036198



Calibration Data					
	Diffrac	tion Grating Data			
S.N.	Filter	Gain Values	OK/Yes/No		
1	340	133182	ОК		
2	405	142934	ОК		
3	505	141950	ОК		
4	546	154089	ОК		
5	578	147927	OK		
6	630	137945	ОК		

Thanking you,

For

Transasia Bio Medicals ttd

Lavkush Lal

Sr. Application Specialist

www.erbamannheim.com



Cerlibration dota

FILTER OFFSET GAIN
340 -00344 133182
405 -00629 142934
505 -00322 141950
546 -00447 154089
578 -00738 147927
630 -00162 137945

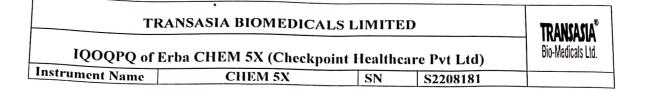
Celibration Clata

FILTER OFFSET GAIN
340 -00344 133182
405 -00629 142934
505 -00322 141950
546 -00447 154089
576 -00738 147927
630 -00162 137945

TRANSASIA ERBA Chem 5X

SEMI-AUTOMATED BIO-CHEMISTRY
ANALYZER
INSTRUMENT QUALIFICATION DOCUMENT
FOR
"Checkpoint Healthcare Pvt Ltd"





Installation Qualification for Erba Chem5X NS

Customer Name

: Checkpoint Healthcare Pvt Ltd

Address

: Mayur Vihar Delhi

Instrument Model

: CHEM 5X

Serial Number

: S2208181

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	1
	MECHANICAL PIPETTE 100UL - 1000UL (CAT. NO 720060)	
14.	ERBA WASH (4 X 50 ML)	1



IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

SN

S2208181

Installation Procedure & Checklist Attached for records.

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

This is to certify that the Instrument Serial No.S2208181 is successfully installed and commissioned at Checkpoint Healthcare Pvt Ltd and the Installation Protocol / checklist has been successfully completed for the above instrument.

For TBM, Technical Services Department

Name

_

Designation

Date

Sr. Service Engineer

Page 3 of 11

TRANSASIA®

Bin-Medicals Ltd

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name CHEM 5X SN S2208181

Installation Qualification for Erba Chem5X

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

Designation

Date

Page 4 of 11

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

SN

S2208181

Installation Report for Erba Chem 5X

Customer Name : Checkpoint Healthcare Pvt Ltd

Department

: Laboratory

Contact Person

: Kuber Singh

Instrument Model: Erba Chem-5X NS

Serial Number

: S2208181

Date of Installation: 06/09/2021

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

Name

Designation

Signature

Date

Customer Detail ,

Name ·

: Kuber Singh

Designation: Labtach.

Signature

Date

15/07/2023

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

SN

S2208181

Instrument Setup

- 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
- 4. Mounted the printer paper.

TBM, Technical Services Department

Designation Signature

Date

Customer Detail

Name : Kuber Singh

Designation: La6 7ac4. Signature

Date 15/07/2023

TRANSASIA® Bio-Medicals Ltd.

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

SN

S2208181

Operational Qualification For Erba Chem5X

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: TBM

Name: Lavkush La

Designation: Sr. Application Spe

oplication Specialist

Customer Authorization:

Name: Kuber Singh

Designation: Lab Tach.

15/07/2023

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

S2208181

Operational Qualification for Erba Chem5X

FUNCTIONAL CHECK: [A]

1. PUMP CALIBRATION

OK

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

OK

PRINTER TEST 2.

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

OK

(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: 37.1

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: OK 2. 30° C: OK 3. 25° C: OK

7. GAIN CHECK FOR ALL FILTERS:

OK

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

SN

8. Checked Hardware test and found OK.

ок

9. Checked Date & time and found OK.

OK

10. Checked printer test and found OK.

OK

TBM, Technical Services Department

Name

: Lavkush Lal

Signature

Date

Designation: Application Specialist

Customer Detail

Name

: Kuber Singh

Designation: Lg6_79ch.

Signature : VA

Date

: 15/07/2023

IQOQPQ of Erba CHEM 5X (Checkpoint Healthcare Pvt Ltd)

Instrument Name

CHEM 5X

S2208181

Performance Qualifications for Erba Chem5X

1. PRECISION CHECK:

(After performing Glucose, Cholesterol, Triglyceride calibration, prepare reaction solution of one concentration of around 5ml and aspirate this reaction $500\mu l$ 11 times and note down readings and calculate CV. CV should be below 3%)

Precision data attached.

Conclusion:

The result for all the performance tests carried out for the instrument meets/does not meet the acceptance criteria. Hence the instrument is/ is not qualified for the performance.

Protocol performed By:- Lavkush Lal (Sr. Application Specialist Transasia Biomedicals Ltd)

pecialist

TBM, Technica rvices Department

Name

Designation: A

Signature

Date

Customer Detail

Name

: Kuber Singh

Designation:

Signature

Date

Intra Assay Precision Study						
Parameters	Glu	Chol	Tgl	Uric	BIT	Prot
Replications	Results	Results	Results	Results	Results	Results
Rep1	248.6	242.3	100.7	12.85	4.37	8.49
Rep2	249.6	233.7	98.58	11.14	4.43	8.63
Rep3	247.1	232.5	95.7	10.74	4.14	8.89
Rep4	241.6	233	• 94.65	11.02	4.49	8.84
· Rep5	237.1	232.7	95.9	10.6	4.26	8.8
Rep6	237.1	232.2	99.11	10.27	4.3	8.74
Rep7	236.3	240.4	96.67	10.54	4.25	8.7
Rep8	238	238.3	97.65	۱0.93 ۱	4.22	8.69
Rep9	245.5	233.9	98.58	10.49	4.14	8.69
Rep10	237.1	234.9	100.7	10.07	4.18	8.71
Mean	241.80	235.39	97.82	10.87	4.28	8.72
SD	3.46	3.62	1.52	0.10	0.12	0.11
CV%	1.43	1.54	1.55	0.92	2.80	1.29
Limit %	< 3.0	< 3.0	< 3.0	< 5.0	< 3.0	< 3.0

Site Name - Checkpoint Healthcare Pvt Ltd Instrument SN - S2208181 Analysis Date - 15 July 2023



Carryover worksheet

Interpretation of results.:

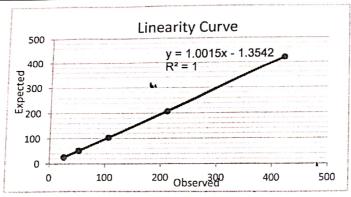
1) If (L1-L3) is equal to a negative number or zero then stop as there is no evidence of carryover.

< 2.0	1.5				•	City
	< 20	< 2.0	7.00			
-0.41	91.13	5	< 3.0	< 2.0	V.2.	
0 44	-0.45	-1.15	-0.65		220	Limit %
0.65	00:0	4	-0 83	-1.30	-0.60	79 Call YOVE
O OF	56.34	1.04	1.4.1	00.07		% Carnouar
0.85	50.42		10/1	65 07	4	Ω.
0 00	26 42	1.04	. 104	02.70		3
0.81	33.33	1.01		27 72	4	72
		1 01	103.1	61.05	3.30	
10.56	233	0.04		24 22	2 00	
	2	79 E	2247	126.9	7.35	- 10
10.55	233.I	0.0	11.1.2		775	F3
	7	3 6	2247	126.3	7.28	71
10.51	232.6	3.55	223.4	119.4	1.2.1	5 ;
				110 /	7 77	Ŧ
		••				
0	Cic					,
11.:5	Chol	RIT	Glu	Trig	Prot	Run
			Parameters			

Site Name - Checkpoint Healthcare Pvt Ltd

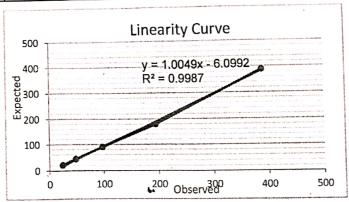
Instrument SN - S2208181 Analysis Date - 15 July 2023

CHEM5x								
	Linearity Curve with R Square Value							
		Glucose						
Sr. No. Dilutions Expected Conc Conc				% Recovery				
1	Neat	421.00	421.00	100.0				
2	(1:2)	210.50	207.90	98.8				
3	(1:4)	105.25	104.00	98.8				
4	(1:8)	52.63	51.50	97.9				
5	(1:16)	26.31	25.73	97.8				



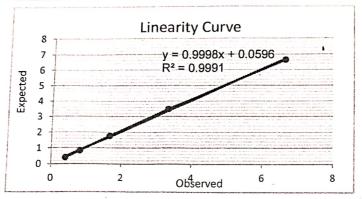
Site Name - Checkpoint Healthcare Pvt Ltd Instrument SN - S2208181 Analysis Date - 15 July 2023

снем5х						
	Line	arity Curve with R				
		Cholestero	ol	,		
Sr. No. Dilutions Expected Co		Expected Conc	Observed Conc	% Recovery		
1	Neat	388.40	388.40	100.0		
2	(1:2)	194.20	180.30	92.8		
3	(1:4)	97.10	90.29	93.0		
4	(1:8)	48.55	44.71	92.1		
5	(1:16)	24.28	22.03	90.8		



Site Name - Checkpoint Healthcare Pvt Ltd Instrument SN - S2208181 Analysis Date - 15 July 2023

	CHEM5x Linearity Curve with R Square Value						
		Bilirubin To	tal				
Sr. No. Dilutions Expected Conc Conc % Recover							
1	Neat	6.65	6.65	100.0			
2	(1:2)	3.33	3.49	105.0			
3	(1:4)	1.66	1.78	107.1			
4	(1:8)	0.8364	0.85	102.3			
5	(1:16)	0.42	0.41	98.6			



Site Name - Checkpoint Healthcare Pvt Ltd Instrument SN - S2208181 Analysis Date - 15 July 2023