



Date: 16/02/2022

CALIBRATION CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to Certify That The Analyzer Bearing the Serial no: <u>S2110167</u> Has Installed by us At <u>KG Diagnostics, Tenkasi.</u> Has Been Calibrated on 16-Feb-2022 And Verified To Control Values.

The Next Calibration Due is on or Before: 15-Feb-2023

For TRANSASIA BIO MEDICALS LTD

P.Ramachandran Sr.Application Specialist, Madurai



TRANSASIA BIO-MEDICAL LTD. CHEM 5X

SR. NO:S2110167

IQ, OQ AND PQ

For

KG DIAGNOSTICS, TENKASI

Marketed by:
Transasia Bio-Medicals Ltd.,
Transasia House,
Chandivali Studio road,
Andheri (E),
MUMBAI – 400 072



Installation Qualification for Erba Chem5X NS

Customer Name : KG DIAGNOSTICS

Address : 5-294(3) A.P.S Complex, Madurai Main Road, Tenkasi

Instrument Model : CHEM 5X Serial Number : S2110167

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) THERMAL PRINTER PAPER ROLL (57mm x30mt.)				
3.					
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.

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. <u>S2110167</u> is successfully installed and commissioned at <u>KG DIAGNOSTICS</u> and the Installation Protocol / checklist has been successfully completed for the above instrument.

For TBM, Technical Services Department

Name : Mr. A.GanesaMoorthi

Designation : Service Engineer

Date :16/02/2022



Installation Qualification for Erba Chem5X NS

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. A.GanesaMoorthi Designation: Service Engineer

Date: 16/02/2022



Installation Report for Erba Chem 5X NS

Customer Name : KG DIAGNOSTICS

Department : LAB

Contact Person :MR.LAKSHMANAN

Instrument Model : Erba Chem-5X NS

: S2110167 Serial Number Date of Installation: 16/02/2022

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 : P.RAMACHANDRAN

Designation: Sr.Application Specialist

Customer Detail

: K. LAKS BMANAN

Designation: LAS -TECH

Signature

Date :16/02/2022

Date



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 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

Customer Detail

Name

: P.RAMACHANDRAN

: K.LAYSHMANAN

Designation: Sr.Application Specialist

Designation: LAS TECH

Signature :

Date

:16/02/2022

Signature :

Date : 16. 2. 2022



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 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

Customer Detail

Name

: P.RAMACHANDRAN

: K.LAYSHMANAN

Designation: Sr.Application Specialist

Designation: LAS TECH

Signature :

Date

:16/02/2022

Signature :

Date : 16. 2. 2022



Operational Qualification For Erba Chem5X NS

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: P.RAMACHANDRAN

Designation: Sr. Application Specialist

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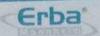
Customer Authorization:

Name: Mr.Lakshmanan Designation: Lab Technician

Company Representative Sign:-

Date: 16/02/2022

Customer Sign:



[A]

FUNCTIONAL CHECK:

Operational Qualification for Erba Chem5X NS

1.	PUMP CALI			nd record	the count	range from	n 1800 to 2	700)			
2.	PRINTER T	EST									
	(To carry ou all characte paper cutt	ers printe	function te d w/o gap	st from m & are clea	aintenanc arly readab	e menu an le:- Last lin	d to confirm te must be a	a that above			
3.	KEY FUNC	TIONS									
	(Confirm al	l keys fun	ction & ke	ys function	ning are sn	nooth)					
4.	BUZZER										
	(Buzzer be	eps when	key is pres	sed)							
5.	PERISTAL	IC PUMP	ASSEMB	LY							
	(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 Temperature Range: (A) 37° C± 0.1°C (B) 57.5 KΩ to 59.0 KΩ using temperature Jig) Check temperature in RUN TEST mode for temperatures: 1. 37° C: 2. 30° C: 3. 25° C:										
	Filter	340	405	505	546	578	630	Range			
	Color	38000	42000	49000	62000	69500	74000	30000-200000			
	Gains Offset	-5100	-6150	-6110	-5980	-5510	-6512	-5000 to +5000			
		l Hardwa	re test an		OK.						
1	.0. Checked	printer t	est and fo	ound OK.							



TBM, Technical Services Department

Name : Designation : Signature : Date :

Customer Details

Name : Designation : Signature : Date:

Performance Qualifications for Erba Chem5X NS

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.	93.2
2.	91.8
3.	93.5
4.	90.9
5.	91.6
6.	91.8
7.	92.8
8.	92.2
9.	93.1
10	92.8
Mean	95.59
SD	4.78
CV%	3%