

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

### **Certificate of Calibration**

Customer Name	:Dr.Reetu's Path Lab	
Model	: Biochemistry Analyser, Erba Chem-7	
Serial No.	: S170917	
Calibration Date	: 17-7-2021	
Next Calibration Due Date	: 16-07-2022	

With reference to the Semi Automated Biochemistry Analyser, Model : ERBA CHEM-7 bearing Sr. No. S170917 at Dr.Reetu's Path lab, 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.** 

Devender singh Sr.Service engineer



# TRANSASIA ERBA CHEM-7 SEMI-AUTOMATED BIO-CHEMISTRY ANALYZER

# INSTRUMENT QUALIFICATION DOCUMENT FOR "DR. REETU'S PATH LAB"

BALLABHGARH.

### **Installation Qualification for ErbaCHEM-7**

Customer Name :DR. REETU'S PATH LAB.

Address :BALLABHGARH Instrument Model:CHEM-7 Serial Number:S170917 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.	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.

#### 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.S170917 is successfully installed and commissioned at DR. REETU'S PATH LABand the Installation Protocol / checklist has been successfully completed for the above instrument.

#### For TBM, Technical Services Department

Name : Mr. DILIP YADAV Designation :SERVICE ENGINEER Date :

### **Installation Qualification for ErbaCHEM-7**

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. Dilip Yadav Designation: SERVICE ENGINEER Date:

## Installation Report for ErbaCHEM-7

Customer Name:DR. REETU'S PATH LABDepartment: LaboratoryContact Person:DR. REETU NAGE

Instrument Model :CHEM-7 Serial Number :S170917 Date of Installation:

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 DepartmentCustomer Detail

Name:MR. DEVENDER SINGHName: DR. REETU NAGE Designation: SERVICE ENGINEER Designation: HOD Signature :Signature : Date : Date:

## Instrument Setup

- 1. Assembled the instrument accessories.
- 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 DepartmentCustomer Detail

Name:MR. DEVENDER SINGHName: DR. REETU NAGEDesignation:SERVICE ENGINEERDesignation: HOD.Signature:SignatureDate:Date:

## **Operational Qualification For CHEM-7**

#### 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: Transasia bio-medicals ltd.

Name: Mr. Dilip Yadav Designation: SERVICE ENGINEER

Customer Authorization: DR. REETU'S PATH LAB. Name: DR. REETU NAGE Designation: HOD.

Company Representative Sign:	Customer Sign:
Date:	Date:

### **Operational Qualification for CHEM-7**

#### [A] 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: \_\_\_\_\_

Temperature Range: (A)  $37^{\circ}$  C± 0.1°C (B) 57.5 K $\Omega$  to 59.0 K $\Omega$  using temperature Jig) Check temperature in RUN TEST mode for temperatures: 1.  $37^{\circ}$  C: \_\_\_\_\_ 2.  $30^{\circ}$  C: \_\_\_\_\_ 3.  $25^{\circ}$  C: \_\_\_\_\_

#### 7. GAIN CHECK FOR ALL FILTERS

Filter	340	405	450	505	546	578	600	670	Range
Gains									30000-200000
Offset									-5000 to +5000

8. Checked Hardware test and found OK.

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

#### TBM, Technical Services DepartmentCustomer Detail

Name:MR. DEVENDER SINGHName : DR. REETU NAGE Designation: SERVICE ENGINEER Designation: HOD Signature :Signature : Date : Date:

### Performance Qualifications for CHEM-7

#### 1. PRECISION CHECK:

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

#### 2. KINETIC, END-POINT MODE CHECK :

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.

Data attach separately.

Protocol performed By:-

TBM, Technical Services Department	CUSTOMER DETAIL

TBM, Technical Services	DepartmentCustomer Detail

Name :	Vika	as Dagar	Na	Name: DR. REETU NAGE			
Designa	tion	: Application	Specialist	Designation	on: HOD.		
Signatur	re	:		Signature	:		
Date				Date:			





17/57/21 09/91:09
ALB Respond (0) -0.028
ALB SID 0.0. 9.7490 HET 0.0. 5.7770 CTAR: 3.8 9.7770 FACTOR 77.7872
17/07/21 09:33:39
01U STO 0.0, 5.3749 HET 0.0 : 0.2876 COMC : 100.0 mg/d) FACTOR : 347.71
036285 GLU 369.9 89/01 P
036287 QLD 352.4 eg/d1 P
17/07/21 09135:52
CHO STO 0.0, 0.3350 MET 0.0, 0.3107 CONC 1 200,0 mg/d1 FACTOR 1643.71
036288 CHO 254.8 mg/d1 H
038289 CHD 297.3 mg/d1 F
17/07/21 09:37:39
PRO STO 0.0. 0.3841 NET 0.0 : 0.2251 CONC : 8.0 g/dl FACTOR :28.855
038290 PRD 9.01 g/dl 1
17/07/21 09:30:09
ALB STD 0.D. 0.4343 NET 0.D : 0.3430 CONC : 3.6 g/d1 FACTOR :10.496
036284 ALB 4.09 g/d]