

Transasia Bio - Medicals Ltd., Akshay Complex, B Wing, Gala No. 214, Tadiwala Road, Pune - 411001

Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@transasia co in CIN: U33110MH1985PLC036198



### CALIBRATION REPORT

ľo.

DATE- 30/03/22

MAEER's Vishwaraj Hospital Laboratory, Pune

Dear Sir.

As desired by you please find enclosed herewith the Calibration report

- 1. Instrument: Bio-chemistry Analyzer ERBA CHEM-7 S.N- S1709178
- 2. Range of the instrument: Optical density Linear form 0-2.5
- 3. Date of Calibration 30th Mar 2022
- 4. Next Calibration Due- 29th Mar 2023

Quality Control Results-

Test Type	Test Results	Range
End Point (GLU)	99. 68	80.2-108.2
Fix Time (URE)	28.17	29.85-37.85
Kinetic (SGPT)	46.73	37.5-52.5

Thanking you and assuring of our prompt attention at all times.

Yours faithfully,

For TRANSASIA BIO-MEDICALS LTD.

Swapnil Kamarik Service Engineer





Transasia Bio - Medicals Ltd., Akshay Complex, B Wing, Gala No. 214, Tadiwala Road, Pune - 411001
Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@transasia.co.in CIN: U33110MH1985PLC036198



#### CALIBRATION REPORT

To,

DATE- 01/04/21

MAEER's Vishwaraj Hospital Laboratory, Pune

Dear Sir,

As desired by you please find enclosed herewith the Calibration report

- 1. Instrument: Bio-chemistry Analyzer ERBA CHEM-7 S.N- S1709178
- 2. Range of the instrument: Optical density Linear form 0-2.5
- 3. Date of Calibration 01st Apr 2021
- 4. Next Calibration Due- 31st Mar 2022

Quality Control Results-

Test Type	Test Results	Range
End Point (GLU)	95. 8	80.2-108.2
Fix Time (URE)	33.11	29.85-37.85
Kinetic (SGPT)	41.6	37.5-52.5

Thanking you and assuring of our prompt attention at all times.

Yours faithfully, For TRANSASIA BIO-MEDICALS LTD.





TRANSASIA

Transasia Bio - Medicals Ltd., Akshay Complex, B Wing, Gala No. 214, Tadiwala Road, Pune - 411001
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# TRANSASIA ERBA Chem-7

SEMI-AUTOMATED BIO-CHEMISTRY
ANALYZER
INSTRUMENT QUALIFICATION DOCUMENT
FOR
"MAEER'S VISHWARAJ HOSPITAL LABORATORY"

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Transasia Bio - Medicals Ltd., Akshay Complex, B Wing, Gala No. 214, Tadiwala Road, Pune - 411001 Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@transasia.co.in CIN: U33110MH1985PLC036198

# Installation Qualification for ERBA CHEM-



**Customer Name** 

: MAEER'S VISHWARAJ HOSPITAL LABORATORY

Address

: Pune

Instrument Model

: Erba Chem-7

Serial Number

: S1709178 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 (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.	TEST TUBE HOLDER (with O-ring)	1
10.	Pipette Stand (Plastic)	1
11.	PROLINE SINGLE CHANNEL VARAIBLE VOLUME MECHANICAL PIPETTES 5UL - 50UL (CAT. NO 720020)	1
12.	PROLINE SINGLE CHANNEL VARAIBLE VOLUME MECHANICAL PIPETTE 100UL - 1000UL (CAT. NO 720060)	1
13.	ERBA WASH (4 X 50 ML)	1

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Tel: +91 20 26 16 2658 Eax; +9120 2616 2658 Email; wz3@transasia.co.in CIN: U33110MH1985PLC036198

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. S1709178 is successfully installed and commissioned at MAEER'S VISHWARAJ HOSPITAL LABORATORY and the Installation Protocol / checklist has been successfully completed for the above instrument.

### For TBM, Technical Services Department

Name

: Swapnil Kamarikar

Designation

: Service Engineer

Date

: 01/01/2021





# Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@transasia.co.in CIN: U33110MH1985PLC036198 Installation Qualification for ERBA CHEM-7

Carried out all the Installation Procedures as per the Installation Procedures 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

: Swapnil Kamarikar

Designation

: Service Engineer

Date

: 01/01/2021

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# Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@tranaasia.co.in.CIN U33110MH1985PL.C03

**Customer Name** : MAEER'S VISHWARAJ HOSPITAL LABORATORY



Department

Contact Person

Instrument Model: Chem-7 Serial Number : 51709178 Date of Installation: 01/01/2021

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

: Swapnil Kamarikar Designation: Service Engineer

Signature Date

01/01/2021

**Customer Detail** 

: Dr. Minibalha Gamel
Designation: HOD-Laboratory

Signature Date







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# 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 waste.
- 4. Mounted the printer paper.

#### TBM, Technical Services Department

: Swapnil Kamarikar Designation: Service Engineer

Signature : Date : 01/01/2021

Name: Dr. Auinedaha Caned

Designation: Hop-Laboratory

Signature: Part

Date

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# Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@transasia.co.in CIN: U33110MH1985PLC036198 Operational Qualification For ERBA CHEM-2

# UNMATCHED SERVICE SINCE 1979...

#### 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: Swapnil Kamarikar Designation: Service Engineer

Customer Authorization:

Name: Dr. Auinledhe, Rand

Designation: HOD Laborator

Company Representative Sign:-\_\_\_

Date:- 01/01/2021

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# Tel: +91 20 2616 2658 Fax: +91 20 2616 2658 Email: wz3@transasia.co.in CIN: U33110MH1985PLC036198 Operational Qualification for ERBA CHEM-7

UNN	TAI	CH	ED	SE	RV	ICI
	SIN	CE	19	79		

#### [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° 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° C: \_\_\_\_\_ 2. 30° C: \_\_\_\_ 3. 25° C:

#### 7. GAIN CHECK FOR ALL FILTERS

Filter	340	405	450	505	546	578	600	670	Range
Gains	11	14	11	1	11	14	11	11	30000-200000
Offset									-5000 to +5000

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# TRANSASIA

Transasia Bio - Medicals Ltd., Akshay Complex, B Wing, Gala No. 214, Tadiwala Road, Pune - 411001 Tel: +91 20 2616 2688 Fach+9120 2616 2668 Email w73@transasia co in CIN: U33110MH1985PLC036198

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



TBM, Technical Services Department

: Swapnil Kamarikar Designation: Service Engineer

Signature : \\

:01/01/2021 Date



**Customer Details** 

Name : DT-Aninodha haned

Designation: HOD-Laboratory

Signature: Paul

Date:

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TRANSASIA

Transasia Bio - Medicals Ltd., Akshay Complex, B Wing, Gala No. 214, Tadiwala Road, Pune - 411001

# Tel: +91 20 2616, 2658 Eax: +91 20 2616 2658 Email: wz3@transasia.co.in CIN: U33110MH1985PLC036198 Performance Qualifications for ERBA CHEM-7

### 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.	101.7
2.	102-6
3.	103.3
4.	104.4
5.	104.4
6.	106.9
7.	106.7
8.	107.3
9.	107-6
10	107.8
Mean	105.27
SD	214
CV%	207

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

(Process the Biochemistry check with reagents and controls as per the kit insert literatures.)

TEST		BLK OD	LEVEL 1		LEVEL 2	
SGPT		0.0	24.48	24.48	1165	
CHOL	1 Urea	0.0	24.63	32.09	115.7	122.4
CRET		0.0	0.85	0.84	7.34	7.29

PERFORMANCE TEST	DATA TRACEABILITY	REMARKS MEETS/DOES NOT MEET	
SGPT	010	ACCEPTANCE	
CHOL / Vrea	1-114	AlA =	
CRET		_14.17	



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#### Conclusion:

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

Protocol performed By:-

TBM, Technical Services Department

TBM, Technical Services Department

: Swapnil Kamarikar Name Designation: Service Engineer

Signature

Date : 01/01/2021



**CUSTOMER DETAIL** 

**Customer Detail** 

Name

: Dr. Avinedha Gamel

Designation: Hon-laboratory

re: Buf

Signature

Date

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# LINEAR TEST URE (Urea þ MODE :2-POINT R1/R2 VOL:400/100 FILTERS:340/000 SAMP. VOL:5 STD. CONC:50 DELAY T.:30 FACTOR :-632.9 READ T/N :60 /1 DEL.RG.OD:0 NOR.MN(M):15 ASP. VOL:450 NOR.MX(M):45 AIR PURGE: ON I.D. TEMP:37.0 ABS : READ NO. WASH

### LINEAR TEST SGPT(SGPT(ALT)) R1/R2 VOL:400/100 MODE : RATE A SAMP. VOL:50 FILTERS :340/000 DELAY T. :10 STD. CONC:0 READ T/N : 240/1 FACTOR :2225 DEL.RG.OD:0 NOR.MN(M):0 ASP. VOL :450 NOR.MX(M):48 AIR PURGE: ON I.D. TEMP: 37.0 ABS ASPIRATE SAMPLE CHIRL READ PRINT NASH

### LINEAR TEST CRE (Creatinin) R1/R2 UOL:250/250 MODE :2-POINT SAMP. VOL:50 DELAY T. :30 :505/000 FILTERS STD. CONC:2 FACTOR : 20.790 READ T/N :90 /1 DEL.RG.OD:0 NOR.MN(M):0.6 ASP. VOL :450 NOR.MX(M):1.4 AIR PURGE: ON I.D. TEMP:37.0 ABS : 0.0ASPIRATE STANDARD NO. READ WASH

01/01/21 10:26:18 GLU Reagent OD 0.0160 GLU STD O.D. 0.3662 NET O.D: 0.3502 CONC: 100 mg/dl FACTOR: 285.55 0000PP GLU 101.7 mg/dl H 0000PP GLU 102.6 mg/dl - H 0000PP GLU 103.3 mg/dl ( H 0000PP GLU 104.4 mg/d1 H 0000PP GLU 104.4 mg/dl H 106.9 mg/dl H 0000PP GLU 0000PP GLU 106.7 mg/dl H 0000PP GLU 107.3 mg/d1 H 0000PP GLU 107.6 mg/dl H 0000PP GLU 107.8 mg/dl H

01/01/21 10:39:36 z 0000PP GLU 98.51 mg/dl 0000PP GLU 99.80 mg/dl

01/01/21 10:46:33 z
0000PP SGPT 24.48 IU/L 9
LINEAR REACTION 0000PP SGPT 24.48 IU/L
LINEAR REACTION
0000PP SGPT 24.48 IU/L
LINEAR REACTION
00008P SGPT 115.7 IU/L H
LINEAR REACTION
0000PP SGPT 122.4 IU/L H
LINEAR REACTION
0000PP SGPT 126.8 IU/L H
LINEAR REACTION

01/01/21 11:58:15 URE DELTA STD 0.D. -0.067 NET 0.D : -0.067 CONC : 50 mg/dl FACTOR :-746.3 LINEAR REACTION ... 0000PP URE 56.72 mg/dl H LINEAR REACTION 0000PP URE 17.16 mg/dl LINEAR REACTION 0000PP URE 24.63 mg/dl LINEAR REACTION 0000PP URE 32.09 mg/dl LINEAR REACTION 0000PP URE 132.1 mg/dl H 9 LINEAR REACTION 0000PP URE 134.3 mg/d1 H LINEAR REACTION 0000PP URE 120.9 mg/dl H LINEAR REACTION

01/01/21 11:28:50 CRE DELTA STD 0.D. 0.0956 NET 0.D: 0.0956 CONC: 2 mg/dl FACTOR: 20.921 LINEAR REACTION 0000PP CRE 2.01 mg/dl H LINEAR REACTION 0000PP CRE 7.34 H ? mg/dl LINEAR REACTION 0000PP CRE 7.29 H mg/dl LINEAR REACTION 0000PP CRE 7.28 H mg/dl LINEAR REACTION 0000PP CRE 0.85 mg/dl ' LINEAR REACTION 0000PP CRE 0.84 mg/dl LINEAR REACTION 0000PP CRE mg/dl 0.87 LINEAR REACTION

```
-*-* CHEMISTRY PARAMETERS
 TEST
            :GLU (Glucose
 MODE
FILTER1
            :1-POINT
            :505
 FILTER2
            :0
 FACTOR
            :247.46
 STD. CONC:100
 NOR.MN(M):74
 NOR.MX(M):100
NOR.MN(F):74
 NOR.MX(F):100
 NOR.MN(I):74
 NOR. MX(I):100
 TEMP.
DELAY T.
 READ T
            :0
 READ NUM
 RECT DIR : INC
 RG.ABSLIM:0.2
 RX.ABSLIM:2.5
 LIN. LIM.:500
 UNIT
            :mg/dl
 SAMP. VOL:5
 R1 VOL
            :500
 R2 VOL
            :0
 ASP. VOL :450
C1 MEAN :0
 C1 SD
C2 MEAN
C2 SD
C3 MEAN
            :0
            :0
            :0
           :0
 C3 SD
           :0
 FORMULA
           :N/A
 30/03/22 14:52:34
30/03/22 13:43:16
B
GLU Reagent OD 0.0274
GLU STD 0.D. 0.4315
NET O.D : 0.4041
CONC : 100 mg
FACTOR :247.46
               mg/d1
          :247.46
                        mg/dl
                 99.68
0000PP
          GLU
               101.0 mg/dl
 0000PP GLU
```

```
-+-+ CHEMISTRY PARAMETERS
TEST
         :SGPT (SGPT (ALT))
:RATE A
MODE
FILTER1
FILTER2
         :340
FACTOR
          :2225
     CONC:0
NOR.MN(M):0
NOR.MX(M):48
NOR.MX(F):42
NOR.MX
           :37
TEMP
           :10
DELAY
           :240
READ NUM
 RECT DIR
 RG.ABSLIM:1.8
 RX.ABSLIM:0.5
 UNIT
 SAMP. VOL:50
R1 VOL :40
            :400
            :100
 R2 VOL
            :450
 ASP. VOL
C1 MEAN
            000000
    SD
    MEAN
    SD
    MEAN
            :0
 C3 SD
            :N/A
 FORMULA
                          -0.158
       DELTA STD O.D.
             -0.158
 NET O.D :
         ou mg/dl
:-316.5
 CONC : 50
FACTOR
 LINEAR REACTION
                  46.84 mg/dl
 0000PP URE
 LINEAR REACTION
                  28.17 mg/dl
 OOOOPP URE
```

```
30/03/22 15:32:00
B
0000PP SGPT 46.73 IU/L
```