



# HYTECH INSTRUMENT

25F, C-2 Shriram Complex, Nyay Khand-I, Indrapuram, Ghaziabad-201014 (U.P) INDIA  
Ph. No. +91-9899380410, +91-9716668085, +91-7669021291-95

## Calibration Certificate

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Format No. : HY/FM/33

<b>Certificate No.</b>	HY/21/1121-1	<b>CALIBRATION CERTIFICATE OF</b>  <b>Bio-Chemistry Analyzer</b>
<b>Date of Calibration :</b>	10.08.2021	
<b>Next Date for Calibration</b> (As per agreed with the Customer)	10.08.2022	
<b>Certificate Issue Date</b>	11.08.2021	

<b>CUSTOMER ADDRESS</b>		<b>DESCRIPTION OF DEVICE UNDER CALIBRATION</b>	
M/s Curis Diagnostics F-24/25, Sector-3, Rohini, New Delhi -110085 INDIA		<b>Make / Model</b>	Microlab In shine /RX-50V
<b>SERVICE REQUEST FORM DETAILS</b>		<b>Instrument Sr. No.</b>	1711963
		<b>Resolution / Least Count</b>	As Per Range
<b>Service Request / Job No.</b>	1121/1121-1	<b>Range / Size</b>	As Per Instrument
<b>Service Request Dated</b>	09.08.2021	<b>Asset Code / I.D No.</b>	CD/BIO-CHEM/LAB/01
		<b>Location</b>	LAB
		<b>Instrument Condition</b>	In working

<b>Calibration Procedure</b>	HY/WI/ZMD08	<b>Calibration Performed At</b>	At Site	
<b>Reference Standard</b>	NABL-126	<b>Discipline</b>	Medical	
<b>ENVIRONMENTAL CONDITIONS</b>	<b>Temperature</b>	(25 ± 15) °C	<b>Relative Humidity</b>	(60 ± 15) %RH

### DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION

Sr. No	Instrument Details	Certificate No.	Calibrated By	Calibration Due Date
1	Process Calibrator	CC205520000004619F	TNC	17.03.2022
2	Digital Multimeter with PRT Sensor	CC281200000001496F	TMP.L	08.10.2021
3	Std. Weights	CC205521000004621F	TNC	17.03.2022
4	Digital Weighing Machine	CC205520000004620F	TNC	17.03.2022
5	Electrical Safety Analyzer	CC205520000000755F	TNC	18.01.2022

The Standards used for calibration are traceable to National Standards.

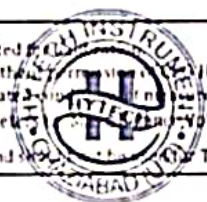
### CALIBRATION RESULT

Maxima Found at	Standard Wavelength	Tolerance Limit
360nm	360 50nm	(upto 400 nm):±1nm
419nm	418 80nm	(400 upto 600 nm):±3nm
453nm	453 90nm	(400 upto 600 nm):±3nm
537nm	536 40nm	(400 upto 600 nm):±3nm
640nm	638 30nm	(600 upto 1000 nm):±4nm

PARAMETER	DUC VALUE (°C)	STANDARD VALUE (°C)	ERROR (°C)	Uncertainty ± (%)
Temperature	20.1	20.002	0.098	0.95
	25.1	25.006	0.094	0.95
	28.2	28.009	0.191	0.95
	30.2	30.012	0.188	0.95
	35.3	35.018	0.282	0.95

Expanded Uncertainty of measurement at approximately 95% Confidence Level with coverage factor k=2

<b>Note :-</b>	1. DUC = Device Under Calibration 2. The Certificate refers only to the particular items submitted for calibration. 3. This Certificate shall not be reproduced, except in full, without the written permission of Hytech Instrument, Ghaziabad. 4. Result Reported are Valid at the time of and under the stated conditions of measurement. 5. Calibration Certificate issue for weight & Measure parameter for Volumetric equipment, Measuring Scale/Tapes etc. for scientific purpose only and not for Industrial / Trade / Commercial use.	<b>CALIBRATED BY</b> (Calib. Engineer)  <b>APPROVED BY</b> (QM / T&I)
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## Calibration Certificate

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<b>Date of Calibration :</b>	10.08.2021	
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### CALIBRATION RESULT

PARAMETER	DIIC VALUE ( $\mu$ l)	STANDARD VALUE ( $\mu$ l)	ERROR ( $\mu$ l)	Uncertainty $\pm$ ( $\mu$ l)
Volume	200	200.11	-0.11	4.0
	500	500.23	-0.23	4.0

### 1. Electrical Safety

#### Visual Test

Sr. No	TESTS	REMARKS
1	Power Chords, Cable Check	OK
2	Main Socket Check	OK
3	Equipment Type (B/IF/CF)	B
4	Equipment Class (I/II/III)	I

B-BODY TYPE, IF-BODY FLOAT TYPE, CF-CARDIAC FLOAT TYPE, I-PROPERLY EARTHED, II-DOUBLE INSULATED  
III-WITH EXTRA SAFETY LOW VOLTAGE.

### 2. Electrical Safety Test

Sr. No	PARAMETERS	Measured Value	REMARKS
1	Voltage Between Line & Neutral (V in)	236.4 V	OK
2	Voltage Between Line & Earth (V ic)	243.6 V	OK
3	Voltage between Neutral & Earth (V en)	2.2 V	OK
4	Load Current (I a)	0.5 A	OK
5	Earth Leakage Current (I L)	7.8 $\mu$ A	OK
6	Enclosure Current	0.6 $\mu$ A	OK
7	Patient Leakage Current (P L)	0.7 $\mu$ A	OK

Expanded Uncertainty of measurement at approximately 95% Confidence Level with coverage factor  $k=2$

#### Note :-

1. DIIC = Device Under Calibration
2. The Certificate refers only to the particular items submitted for calibration.
3. This Certificate shall not be reproduced, except in full, without the permission of Hytech Instrument, Ghaziabad.
4. Result Reported are Valid at the time of and under the stated conditions of measurement.
5. Calibration Certificate issue for weight & Measure parameters for Volumetric equipment, Measuring Scale/Tapes etc. for scientific purpose only and shall not be used for Trade / Commercial use.

CALIBRATED BY  
(Calib. Engineer)

APPROVED BY  
(QM / TM)



TEST :SGOT

INITIAL ABS: 1.2516  
1 0.0234 40.9 N  
DELTA 1 : 0.0244  
DELTA 2 : 0.0225  
DELTA MEAN : 0.0234  
STANDARD DEV: 0.001  
CO-EFF VAR : 5.525

-----  
TEST :SGPT

-----  
FACTOR : 1749.00  
10/08/21 11:47:43 AM  
INVENTORY: 0

TEST :SGPT  
INITIAL ABS: 1.4526  
1 0.0160 28.0 N  
DELTA 1 : 0.0165  
DELTA 2 : 0.0156  
DELTA MEAN : 0.0160  
STANDARD DEV: 0.001  
CO-EFF VAR : 4.040

-----  
TEST :ALPL

-----  
FACTOR : 2764.00  
10/08/21 11:51:37 AM

TEST :ALPL  
INITIAL ABS: 0.9553  
1 0.0385 106.5 N  
DELTA 1 : 0.0200  
DELTA 2 : 0.0194  
DELTA 3 : 0.0187  
DELTA 4 : 0.0190  
DELTA MEAN : 0.0193  
STANDARD DEV: 0.001  
CO-EFF VAR : 2.837

-----  
TEST :TRIG

-----  
Factor : 522.60  
Calibrated on:07/08/21  
10/08/21 11:55:26 AM

-----  
Pid ABS mg/dL Fla

-----  
TEST :TRIG  
WL1 ABS: 0.6085  
WL2 ABS: 0.2011  
1 0.2906 151.86 N

-----  
TEST :CHOL

-----  
Factor : 801.93  
Calibrated on:06/08/21  
10/08/21 11:59:45 AM  
Pid ABS mg/dL Fla

TEST :CHOL

Factor : 801.93  
Calibrated on:08/08/21  
10/08/21 11:59:45 AM  
Pid ABS mg/dL Flag

TEST :CHOL  
WL1 ABS: 0.6431  
WL2 ABS: 0.2966  
1 0.3338 267.69 H

TEST :GLU

Factor : 250.40  
Calibrated on:03/08/21  
10/08/21 12:00:50 PM  
Pid ABS mg/dL Flag

TEST :GLU  
1 0.3523 88.21 N

TEST :TPR

Factor : 16.42  
Calibrated on:07/08/21  
10/08/21 12:01:28 PM  
INVENTORY: 0

Pid ABS mg/dL Flag

TEST :TPR  
1 0.3616 5.9 L

TEST :URIC

Factor : 72.98  
Calibrated on:03/08/21  
10/08/21 12:02:24 PM  
INVENTORY: 0

Pid ABS mg/dL Flag

TEST :URIC  
WL1 ABS: 0.1073  
WL2 ABS: 0.0326  
1 0.0584 4.2 N

TEST :ALB

Factor : 5.99  
Calibrated on:07/08/21  
10/08/21 12:03:28 PM  
Pid ABS mg/dL Flag

TEST :ALB  
1 0.4928 2.9 L

TEST :UREALC

Factor : 466.77  
Calibrated on:07/08/21  
10/08/21 12:04:14 PM  
INVENTORY: 0

TEST :UREALC  
Pid ABS mg/dL Flag

INITIAL ABS: 1.0155  
1 0.4113 51.9 H

TEST :UREALC

Factor : 466.77  
Calibrated on:07/08/21  
10/08/21 12:09:12 PM  
INVENTORY: 0

TEST :UREALC  
Pid ABS mg/dL Flag

1 0.0584 4.2 H  
-----  
TEST :ALB  
-----  
Factor : 5.99  
Calibrated on:07/08/21  
10/08/21 12:03:28 PM  
-----  
Pid ABS mg/dL Fla@  
-----

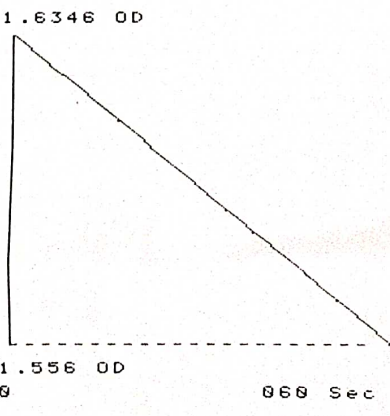
TEST :ALB  
1 0.4928 2.9 L  
-----

TEST :UREALC  
-----  
FACTOR : 466.77  
Calibrated on:07/08/21  
10/08/21 12:04:14 PM  
-----  
INVENTORY: 0

TEST :UREALC  
-----  
Pid ABS mg/dL Fla@  
-----  
INITIAL ABS: 1.8155  
1 0.1113 51.9 H  
-----

TEST :UREALC  
-----  
FACTOR : 466.77  
Calibrated on:07/08/21  
10/08/21 12:09:12 PM  
-----  
INVENTORY: 0

TEST :UREALC  
-----  
Pid ABS mg/dL Fla@  
-----  
INITIAL ABS: 1.6346  
2 0.0782 36.4 N  
-----



-----  
TEST :T.BIL  
-----  
Factor : 14.00  
10/08/21 12:12:27 PM  
-----  
INVENTORY: 0

-----  
Pid ABS mg/dL Fla@  
-----

TEST :T.BIL  
WL1 ABS: 0.1161  
WL2 ABS: 0.0394  
1 0.0703 0.9 H  
\*