



# HYTECH INSTRUMENT

2SF, C-2 Shriram Complex, Nyay Khand-I, Indirapuram, 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/21/1371-175	<b>CALIBRATION CERTIFICATE OF</b>  <b>Semi Automatic Bio-Chemistry Analyzer</b>
<b>Date of Calibration :</b>	26.11.2021	
<b>Next Date for Calibration</b>	26.11.2022	
(As per agreed with the Customer)		
<b>Certificate Issue Date</b>	27.11.2021	

<b>CUSTOMER ADDRESS</b>		<b>DESCRIPTION OF DEVICE UNDER CALIBRATION</b>	
M/s Care Hospital (A Unit of Goel Superspeciality Medical Centre Pvt.Ltd.) Near Delapeer Petrol Pump, Stadium Road, Bareilly - 243001 INDIA		<b>Make / Model</b>	Transasia/Chem 5V2
		<b>Instrument Sr. No.</b>	90140
		<b>Resolution / Least Count</b>	As Per Range
		<b>Range / Size</b>	As Per Instrument
<b>SERVICE REQUEST FORM DETAILS</b>		<b>Asset Code / I.D No.</b>	----
<b>Service Request / Job No.</b>	1371/1371-175	<b>Location</b>	Path Lab
<b>Service Request Dated</b>	24.11.2021	<b>Instrument Condition</b>	In working

<b>Calibration Procedure</b>	HY/WI/2MD08	<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>	(50 ± 20) %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 With Analyzer	HY/22/1487-1	Hytech	17.03.2023
2	RTD Sensor with Indicator	GC/AV/P1398A/08/21	GC	12.08.2022
3	Std. Weights	Tycon/WB/09/127	Tycon	21.09.2023
4	Digital Weighing Machine	CC20552100000235F	TNC	09.09.2022
5	Electrical Safety Analyzer	CCTPL/DAM/0009/02	Calys	19.01.2023

The Standards used for calibration are traceable to National Standards.

### CALIBRATION RESULT

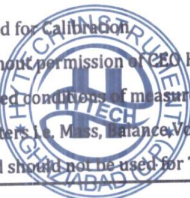
PARAMETER	DUC VALUE( µl)	STANDARD VALUE(µl)	ERROR(µl)	Uncertainty± (µl)
Volume	200	200.17	-0.17	4.0
	500	500.28	-0.28	4.0
PARAMETER	DUC VALUE( µl)	STANDARD VALUE(µl)	ERROR(µl)	Uncertainty± (µl)
Aspiration Volume	100	100.17	-0.17	4.0
	200	200.23	-0.23	4.0
	400	400.26	-0.26	4.0
PARAMETER	DUC VALUE(mm)	STANDARD VALUE(mm)	ERROR(mm)	Uncertainty± (mm)
Low Cell Optical Path	5	5.02	-0.02	4.0
	10	10.03	-0.03	4.0

Maxima Found at	Standard Wavelength	Tolerance Limit
360nm	360.50nm	(upto 400 nm)±1nm
419nm	418.80nm	(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 ± (°C)
Temperature	20.1	20.004	0.096	0.25
	25.1	25.016	0.084	0.25
	30.2	30.038	0.162	0.25
	35.3	35.054	0.246	0.25

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

- Note :-**
- DUC = Device Under Calibration
  - The Certificate refers only to the particular items submitted for Calibration.
  - This Certificate shall not be reproduced, except in full, without permission of Hytech Instrument, Ghaziabad.
  - Result Reported are Valid at the time of and under the stated conditions of measurement.
  - Calibration Certificate issue for weight & Measure parameters i.e. Mass, Balance, Volumetric equipment, Measuring Scale/Tapes etc. for scientific purpose only and should not be used for Trade / Commercial use.



**CALIBRATED BY**  
(Calib. Engineer)

**APPROVED BY**  
(QM/INM)



04/08/22 14:48:54

C1 SGOB 32.82 U/L

04/08/22 14:51:19

C1 CRE 1.38 mg/dL

04/08/22 14:55:51

C1 BIT 1.44 mg/dL -1SD

04/08/22 14:56:47

C1 GLU 122.3 mg/dL +1SD

03/08/22 15:27:07

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C1 ALB 3.41 g/dL -1SD

03/08/22 15:29:53

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C1 UAC 4.74 mg/dL -2SD

03/08/22 15:32:53

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C1 GLU ~~94.84~~ 94.84 mg/dL -2SD

03/08/22 15:41:13

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C1 PRO 5.08 g/dL -1SD

03/08/22 15:45:59

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C1 ALP 177.9 U/L -1SD

02/08/22 15:49:23

C1 SGOB 30.73 U/L -1SD

02/08/22 15:54:45

C1 CRE 1.43 mg/dL

02/08/22 16:00:39

C1 UREA 43.16 mg/dL  
RX ABSLIM OVER

02/08/22 16:12:34

C1 CAL 8.17 mg/dL  
RX ABSLIM OVER

02/08/22 16:15:30

C1 CHO 178.5 mg/dL +2SD

02/08/22 16:17:30

C1 TRI **103.1** mg/dL +1SD