



# HYTECH INSTRUMENT

2SF, C-2 Shriram Complex, Nyay Khand-I, Indirapuram, Ghaziabad-201014 (U.P) INDIA  
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## 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	CC205521000000235F	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 :-**
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 permission of CEO 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 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/IN)



26/07/22 15:57:34

C1 BIT 1.42 mg/dL -1SD

26/07/22 15:34:09

C1 GLU 92.39 mg/dL -2SD

26/07/22 16:01:42

C1 ALP 193.9 U/L

26/07/22 15:38:14

C1 ALB 3.68 g/dL

26/07/22 16:05:42

C1 SGPB 41.38 U/L

26/07/22 15:43:08

C1 UREA 50.00 mg/dL +1SD  
RX ABSLIM OVER

26/07/22 16:11:58

C1 PRO 5.63 g/dL

26/07/22 15:49:15

C1 UAC 4.89 mg/dL -2SD

19/07/22 15:56:52

C1 CRE 1.49 mg/dL

19/07/22 16:00:26

C1 UREA 51.44 mg/dL +2SD  
RX ABSLIM OVER

19/07/22 16:06:38

C1 SGPB 33.17 U/L -1SD

19/07/22 16:10:26

C1 SGOB 30.38 U/L -1SD

19/07/22 16:14:02

C1 UAC 6.65 mg/dL +2SD

19/07/22 16:16:38

C1 CAL 8.15 mg/dL  
RX ABSLIM OVER

19/07/22 16:17:56

C1 PRD 5.88 g/dL

13/07/22 14:39:37

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C1 ALB 3.76 g/dL

13/07/22 14:46:44

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C1 ALP 210.5 U/L

13/07/22 15:02:21

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C1 BIT 1.43 mg/dL -1SD

13/07/22 04:38:42

C1 AMY 100.0 U/L +1SD

13/07/22 14:09:40

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C1 CRE 1.58 mg/dL

13/07/22 14:14:26

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C1 UREA 52.15 mg/dL +2SD  
RX ABSLIM OVER

13/07/22 14:16:11

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C1 GLU 113.1 mg/dL

13/07/22 14:24:07

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C1 SGPB 28.63 U/L -2SD

13/07/22 14:30:13

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C1 SGOB 31.60 U/L