



HYTECH INSTRUMENT

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Calibration Certificate

Page No. : 01 of 01

Format No. : HY/FM/33

Certificate No.	HY/21/1371-175	CALIBRATION CERTIFICATE OF Semi Automatic Bio-Chemistry Analyzer
Date of Calibration :	26.11.2021	
Next Date for Calibration	26.11.2022	
(As per agreed with the Customer)		
Certificate Issue Date	27.11.2021	

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

Calibration Procedure	HY/WI/2MD08	Calibration Performed At	At Site	
Reference Standard	NABL-126	Discipline	Medical	
ENVIRONMENTAL CONDITIONS	Temperature	(25 ± 15) °C	Relative Humidity	(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 :-**
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)



VIEW LAB MONTHLY SUMMARY

Lab Name CARE HOSPITAL
 Lab No 9041
 Month June
 Year 2022
 Constituent Group Chemistry II

Details About Robust Analysis

Detail About Monthly Summary

Detail about SDI

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 11/06/2022

Date of Report Published : 07/07/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	SD	Your Value	SDI	U
1	GLUCOSE II	GOD-POD II	Transasia / Erba	849	86.39	9.86	8.52	80.72 mg/dL	-0.67	0.58
2	UREA II	Others (Urease Berthelot / Ned Dye) II	Any Analyser (Automation / Semi Automation)	844	44.87	12.88	5.78	49.6 mg/dL	0.82	0.40
3	CREATININE II	Jaffes Kinetic-Alkaline Picrate II	Transasia / Erba	554	1.94	11.95	0.23	1.88 mg/dL	-0.26	0.02
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Transasia / Erba	735	3.82	10.81	0.41	3.5 mg/dL	-0.77	0.03
5	T-PROTEIN II	Biuret - Colorimetric II	Transasia / Erba	723	6.14	8.88	0.55	6.24 g/dL	0.18	0.04
6	ALBUMIN II	BCG - Colorimetric II	Transasia / Erba	700	3.51	8.77	0.31	3.25 g/dL	-0.84	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Transasia / Erba	742	6.84	12.50	0.86	7.7 mg/dL	1.01	0.06
8	CHOLESTROL II	CHOD-PAP II	Transasia / Erba	810	120.81	12.10	14.62	174 mg/dL	3.64	1.03
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Transasia / Erba	736	152.58	12.98	19.81	167 mg/dL	0.73	1.46

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

VIEW LAB MONTHLY SUMMARY

Lab Name	CARE HOSPITAL	Details About Robust Analysis
Lab No	9041	Detail About Monthly Summary
Month	May	Detail about SDI
Year	2022	
Constituent Group	Chemistry II	

Click on the analyte to view Graphical Data

All Analyser Result
Print

Date of Result Entered : 10/05/2022

Date of Report Published : 08/06/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE II	GOD-POD II	Transasia / Erba	826	153.23	10.59	16.23	170.5 mg/dL	1.06	1.13
2	UREA II	Others (Urease Berthelot / Ned Dye) II	Any Analyser (Automation / Semi Automation)	798	114.83	14.41	16.55	139 mg/dL	1.46	1.17
3	CREATININE II	Jaffes Kinetic-Alkaline Picrate II	Transasia / Erba	519	7.94	12.39	0.98	8.07 mg/dL	0.13	0.09
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Transasia / Erba	669	1.71	18.52	0.32	3.08 mg/dL	4.28	0.02
5	T-PROTEIN II	Biuret - Colorimetric II	Transasia / Erba	672	6.24	8.05	0.50	7.6 g/dL	2.71	0.04
6	ALBUMIN II	BCG - Colorimetric II	Transasia / Erba	678	3.50	8.73	0.31	3.43 g/dL	-0.23	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Transasia / Erba	721	5.78	13.22	0.76	7.2 mg/dL	1.86	0.06
8	CHOLESTROL II	CHOD-PAP II	Transasia / Erba	748	121.76	10.15	12.36	154 mg/dL	2.61	0.90
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Transasia / Erba	661	89.83	18.41	16.54	97.76 mg/dL	0.48	1.29

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

VIEW LAB MONTHLY SUMMARY

Lab Name	CARE HOSPITAL	Details About Robust Analysis
Lab No	9041	Detail About Monthly Summary
Month	April	Detail about SDI
Year	2022	
Constituent Group	Chemistry II	

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 05/04/2022

Date of Report Published : 05/05/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE II	GOD-POD II	Transasia / Erba	799	223.18	10.20	22.77	210 mg/dL	-0.58	1.61
2	UREA II	Others (Urease Berthelot / Ned Dye) II	Any Analyser (Automation / Semi Automation)	784	38.76	12.99	5.03	42.62 mg/dL	0.77	0.36
3	CREATININE II	Jaffes Kinetic- Alkaline Picrate II	Transasia / Erba	518	4.68	10.61	0.50	4.28 mg/dL	-0.80	0.04
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Transasia / Erba	703	2.90	11.57	0.34	1.87 mg/dL	-3.03	0.03
5	T-PROTEIN II	Biuret - Colorimetric II	Transasia / Erba	672	5.80	8.17	0.47	5.84 g/dL	0.08	0.04
6	ALBUMIN II	BCG - Colorimetric II	Transasia / Erba	649	3.38	8.14	0.28	2.97 g/dL	-1.49	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Transasia / Erba	730	7.12	12.13	0.86	7.06 mg/dL	-0.07	0.06
8	CHOLESTROL II	CHOD-PAP II	Transasia / Erba	754	111.29	11.48	12.78	97 mg/dL	-1.12	0.93
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Transasia / Erba	726	114.85	16.13	18.52	119.7 mg/dL	0.26	1.37

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

VIEW LAB MONTHLY SUMMARY

Lab Name	CARE HOSPITAL	Details About Robust Analysis
Lab No	9041	Detail About Monthly Summary
Month	March	Detail about SDI
Year	2022	
Constituent Group	Chemistry II	

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 04/03/2022

Date of Report Published : 06/04/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE II	GOD-POD II	Transasia / Erba	791	109.92	9.69	10.65	104 mg/dL	-0.56	0.76
2	UREA II	Others (Urease Berthelot / Ned Dye) II	Any Analyser (Automation / Semi Automation)	741	78.61	11.58	9.11	79.42 mg/dL	0.09	0.67
3	CREATININE II	Jaffes Kinetic- Alkaline Picrate II	Transasia / Erba	459	3.84	11.18	0.43	3.59 mg/dL	-0.58	0.04
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Transasia / Erba	668	1.57	19.28	0.30	1.46 mg/dL	-0.36	0.02
5	T-PROTEIN II	Biuret - Colorimetric II	Transasia / Erba	593	5.34	8.62	0.46	8.42 g/dL	6.7	0.04
6	ALBUMIN II	BCG - Colorimetric II	Transasia / Erba	633	3.15	9.30	0.29	3.62 g/dL	1.60	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Transasia / Erba	637	8.01	11.65	0.93	7.51 mg/dL	-0.54	0.07
8	CHOLESTROL II	CHOD-PAP II	Transasia / Erba	700	105.41	11.28	11.89	101 mg/dL	-0.37	0.90
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Transasia / Erba	679	188.91	11.47	21.66	186 mg/dL	-0.13	1.66

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.

VIEW LAB MONTHLY SUMMARY

Lab Name	CARE HOSPITAL	Details About Robust Analysis
Lab No	9041	Detail About Monthly Summary
Month	February	Detail about SDI
Year	2022	
Constituent Group	Chemistry II	

Click on the analyte to view Graphical Data

[All Analyser Result](#)

[Print](#)

Date of Result Entered : 08/02/2022

Date of Report Published : 05/03/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants CV	Participants SD	Your Value	SDI	U
1	GLUCOSE II	GOD-POD II	Transasia / Erba	728	278.22	10.88	30.27	253.8 mg/dL	-0.81	2.24
2	UREA II	Others (Urease Berthelot / Ned Dye) II	Any Analyser (Automation / Semi Automation)	774	31.02	13.91	4.32	36.2 mg/dL	1.20	0.31
3	CREATININE II	Jaffes Kinetic- Alkaline Picrate II	Transasia / Erba	480	1.14	12.72	0.14	1.38 mg/dL	1.66	0.01
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Transasia / Erba	614	5.06	11.12	0.56	3.6 mg/dL	-2.59	0.05
5	T-PROTEIN II	Biuret - Colorimetric II	Transasia / Erba	604	5.81	9.02	0.52	6.16 g/dL	0.67	0.04
6	ALBUMIN II	BCG - Colorimetric II	Transasia / Erba	597	3.40	8.90	0.30	3.5 g/dL	0.33	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Transasia / Erba	524	4.45	12.44	0.55	5.01 mg/dL	1.01	0.05
8	CHOLESTROL II	CHOD-PAP II	Transasia / Erba	678	112.37	11.73	13.18	108 mg/dL	-0.33	1.01
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Transasia / Erba	661	88.35	21.56	19.05	87.6 mg/dL	-0.04	1.48

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ±1.01 to ±2.00	Good.
Within ±2.01 to ±2.99	Accept with caution. Warning Signal.
Beyond ±3.0	Unacceptable performance. Action Signal.

VIEW LAB MONTHLY SUMMARY

Lab Name	CARE HOSPITAL	Details About Robust Analysis
Lab No	9041	Detail About Monthly Summary
Month	January	Detail about SDI
Year	2022	
Constituent Group	Chemistry II	

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 20/01/2022

Date of Report Published : 07/02/2022

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE II	GOD-POD II	Transasia / Erba	687	130.44	8.67	11.30	133.1 mg/dl	0.24	0.86
2	UREA II	Others (Urease Berthelot / Ned Dye) II	Any Analyser (Automation / Semi Automation)	740	47.34	12.33	5.84	54.2 mg/dl	1.18	0.43
3	CREATININE II	Jaffes Kinetic-Alkaline Picrate II	Transasia / Erba	434	1.70	10.33	0.18	1.72 mg/dl	0.11	0.02
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Transasia / Erba	615	2.30	15.28	0.35	2.01 mg/dl	-0.83	0.03
5	T-PROTEIN II	Biuret - Colorimetric II	Transasia / Erba	556	5.38	9.07	0.49	5.82 g/dl	0.90	0.04
6	ALBUMIN II	BCG - Colorimetric II	Transasia / Erba	577	3.15	8.76	0.28	2.87 g/dl	-1.01	0.02
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Transasia / Erba	592	7.17	12.44	0.89	7.1 mg/dl	-0.08	0.07
8	CHOLESTROL II	CHOD-PAP II	Transasia / Erba	636	101.83	11.62	11.83	100.3 mg/dl	-0.13	0.94
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Transasia / Erba	577	115.89	15.40	17.85	103.2 mg/dl	-0.71	1.49

SDI Range	Interpretation
Within -1.00 to +1.00	Excellent.
Within ± 1.01 to ± 2.00	Good.
Within ± 2.01 to ± 2.99	Accept with caution. Warning Signal.
Beyond ± 3.0	Unacceptable performance. Action Signal.