



HYTECH INSTRUMENT

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Calibration Certificate

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Format No. : HY/FM/33

Certificate No.	HY/21/1371-174	CALIBRATION CERTIFICATE OF Cell Counter
Date of Calibration :	26.11.2021	
Next Date for Calibration (As per agreed with the Customer)	26.11.2022	
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	ERME/PCE 210
SERVICE REQUEST FORM DETAILS		Instrument Sr. No.	29210
		Resolution / Least Count	As Per Range
Service Request / Job No.	1371/1371-174	Range / Size	As Per Instrument
Service Request Dated	24.11.2021	Asset Code / I.D No.	----
		Location	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	(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 with Analyzer	CC205521000004619F	TNC	17.03.2022
2	RTD Sensor with Indicator	GC/AV/P1398A/08/21	GC	12.08.2022
3	Std. Weights	CC205521000004622F	TNC	17.03.2022
4	Digital Weighing Machine	CC205520000004620F	TNC	17.03.2022
5	Electrical Safety Analyzer	CCTPL/DAM/0009/02	CCTPL	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	200.45	-0.45	4.0
	500	500.27	-0.27	4.0
PARAMETER	DUC VALUE(µm)	STANDARD VALUE(µm)	ERROR(µm)	Uncertainty± (µm)
Cell Diameter	10	10.02	-0.02	0.4
	30	30.04	-0.04	0.4
	50	50.07	-0.07	0.4
PARAMETER	DUC VALUE(count)	STANDARD VALUE(count)	ERROR(count)	Uncertainty± (count)
Count Data Storage	200	201	-1	0.4
	500	502	-2	0.4
	1000	1002	-2	0.4
PARAMETER	DUC VALUE(count)	STANDARD VALUE(count)	ERROR(count)	Uncertainty± (count)
Protocol Storage	100	101	-1	0.4
	200	201	-1	0.4
	300	302	-2	0.4
Maxima Found at	Standard Wavelength		Tolerance Limit	
365nm	365.60nm		(upto 400 nm)±1nm	
537nm	536.40nm		(400 upto 600 nm)±3nm	
600nm	631.30nm		(600 upto 800 nm)±4nm	
PARAMETER	DUC VALUE (°C)	STANDARD VALUE(°C)	ERROR(°C)	Uncertainty± (%)
Temperature	25.0	25.003	-0.003	0.95
	30.0	30.008	-0.008	0.95
	35.0	35.043	-0.043	0.95

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 like 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 / FM)



Control (N)

No. 00010

2022/ 7/20 3:56

WBC		8.1	$\times 10^3$ /ul
LY		2.3	$\times 10^3$ /ul
MO		0.7	$\times 10^3$ /ul
GR		5.1	$\times 10^3$ /ul
LY%		28.0	%
MO%	+	8.4	%
GR%		63.6	%
RBC		4.89	$\times 10^6$ /ul
Hgb		13.8	g/dl
HCT		44.7	%
MCV		91.4	fl
MCH		28.2	pg
MCHC	-	30.8	g/dl
RDW	+	15.6	%
PLT		269	$\times 10^3$ /ul
PCT		0.271	%
MPV		10.1	fl
PDW		13.1	fl

Control

No. 00007

2022/ 7/26 4:40

WBC		8.0	$\times 10^3$ /ul
LY		2.3	$\times 10^3$ /ul
MO		0.7	$\times 10^3$ /ul
GR		4.9	$\times 10^3$ /ul
LY%		29.2	%
MO%	+	8.9	%
GR%		61.9	%
RBC		4.95	$\times 10^6$ /ul
Hgb		14.1	g/dl
HCT		45.5	%
MCV		91.9	fl
MCH		28.4	pg
MCHC	-	30.9	g/dl
RDW	+	15.7	%
PLT		278	$\times 10^3$ /ul
PCT		0.275	%
MPV		9.9	fl
PDW		13.0	fl

No. 00005

2022/ 7/11 4:43

WBC	7.8	$\times 10^3$ /ul
LY	2.4	$\times 10^3$ /ul
MO	0.5	$\times 10^3$ /ul
GR	4.9	$\times 10^3$ /ul
LY%	30.9	%
MO%	6.5	%
GR%	62.6	%
RBC	4.78	$\times 10^6$ /ul
Hgb	13.7	g/dl
HCT	42.8	%
MCV	89.5	fl
MCH	28.6	pg
MCHC	32.0	g/dl
RDW	+ 15.1	%
PLT	259	$\times 10^3$ /ul
PCT	0.256	%
MPV	9.9	fl
PDW	12.0	fl