



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

Certificate No.	HY/21/1121-2	CALIBRATION CERTIFICATE OF Hematology Analyzer
Date of Calibration :	10.08.2021	
Next Date for Calibration	10.08.2022	
(As per agreed with the Customer)		
Certificate Issue Date	11.08.2021	

CUSTOMER ADDRESS		DESCRIPTION OF DEVICE UNDER CALIBRATION	
M/s Curis Diagnostics F-24/25, Sector-3, Rohini, New Delhi -110085 INDIA		Make / Model	Accurek/Acculab
		Instrument Sr. No.	2900Pet02683
		Resolution / Least Count	As Per Range
		Range / Size	As Per Instrument
SERVICE REQUEST FORM DETAILS		Asset Code / I.D No.	CD/HA/LAB/01
Service Request / Job No.	1121/1121-2	Location	LAB
Service Request Dated	09.08.2021	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	CC205520000001619F	TNC	17.03.2022
2	Digital Multimeter with PRT Sensor	CC281200000001496F	TMPL	08.10.2021
3	Std. Weights	CC205521000001621F	TNC	17.03.2022
4	Digital Weighing Machine	CC205520000001620F	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	455.90nm	(400 upto 600 nm):3nm
537nm	537.5nm	(400 upto 600 nm):3nm
640nm	639.50nm	(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	25.004	0.096	0.95
	28.2	28.009	0.191	0.95
	30.2	30.011	0.189	0.95
	35.3	35.018	0.282	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 the written permission of Hytech Instrument, Ghaziabad.
 4. Result Reported are Valid at the time of and under the stated calibration conditions.
 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
(QA/IM)





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CALIBRATION RESULT

PARAMETER	DUC VALUE (ul)	STANDARD VALUE (ul)	ERROR (ul)	Uncertainty ± (ul)
Volume	200	200.07	-0.07	4.0
	500	500.13	-0.13	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/BF/CF)	B
4	Equipment Class (I/II/III)	I

B-BODY TYPE, BF-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 ie)	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 μ A	OK
6	Enclosure Current	0.6 μ A	OK
7	Patient Leakage Current (P L)	0.7 μ A	OK

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

<p>Note :-</p> <ol style="list-style-type: none"> 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 the 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 parameter for 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 (C.M / T.M)
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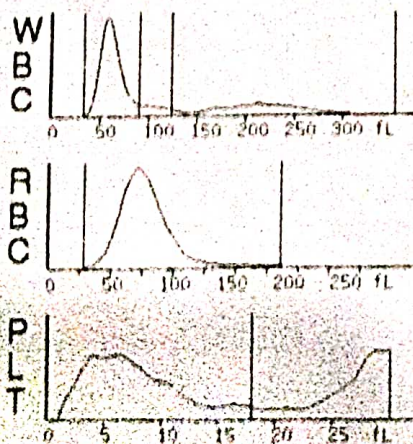
Hematology Analyzer Report

ID:000000000001

Name:low control

Time:10/08/2021 10:14

Param	Result	Info
WBC	2.2 x 10 ⁹ /L	L
LYM%	64.8 %	H
MID%	7.4 %	
GRAN%	27.8 %	L
LYM#	1.4 x 10 ⁹ /L	
MID#	0.2 x 10 ⁹ /L	
GRAN#	0.6 x 10 ⁹ /L	L
RBC	2.26 x 10 ¹² /L	L
HGB	5.6 g/dL	L
HCT	16.8 %	L
MCV	74.6 fL	L
MCH	24.7 pg	L
MCHC	33.3 g/dL	
RDW_CV	18.6 %	H
RDW_SD	44.0 fL	
PLT	74 x 10 ⁹ /L	L
MPV	9.5 fL	
PDW	20.8 fL	H
PCT	0.07 %	L
P_LCR	24.2 %	
P_LCC	17 x 10 ⁹ /L	



Hematology Analyzer Report

ID:000000000002

Name:normal control

Time:10/08/2021 10:16

Param	Result	Info
WBC	8.0 x 10 ⁹ /L	
LYM%	32.9 %	
MID%	6.9 %	
GRAN%	60.2 %	
LYM#	2.6 x 10 ⁹ /L	
MID#	0.6 x 10 ⁹ /L	
GRAN#	4.8 x 10 ⁹ /L	
RBC	4.58 x 10 ¹² /L	
HGB	13.8 g/dL	
HCT	39.5 %	
MCV	86.4 fL	
MCH	30.1 pg	
MCHC	34.9 g/dL	
RDW_CV	16.0 %	
RDW_SD	47.3 fL	
PLT	260 x 10 ⁹ /L	
MPV	8.8 fL	
PDW	15.0 fL	
PCT	0.22 %	
P_LCR	19.2 %	
P_LCC	49 x 10 ⁹ /L	

