

UBM

UNITRON BIO-MEDICALS

GSTIN : 29AOTPP1452J1ZB

Unitron Bio-Medicals

AN ISO 9001 : 2015 CERTIFIED COMPANY

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CERTIFICATE OF CALIBRATION FOR HEMATOLOGY ANALYZERIssued To: **Prakash Diagnostic Laboratory, Bydrhalli**Location /Dept : **Laboratory**Certificate No: **UBM/CAL/111**Model : **Cell counter FX-19T**Manufacturer : **URIT**Serial No : **3020ET-01576**Calibration Standard used in house Performance of standards /controls using
accepted test Proceeds.

Sl. No	Description	Test Pass/Fail	Remarks
1	Cell counter FX-19T	Pass	Working Good

Calibration Passed: Yes No: Calibration Date : **28.12.2022**Calibration Due Date : **27.06.2023**

The above mentioned instrument has been calibrated using standards manufactures recommended Protocols, using equipments having traceability to National Standards. Devices for which there are no National/International Standards calibrations standards are measured against in-house performance standards using accepted test procedures.

Calibration Done By: *Mr. Shivakumar*

Instrument	<i>FX-19T</i>	Date of Calibration	28.12.2022
Serial No	3020ET-01576	Next Calibration Date	27.06.2023
		Calibrator Lot Number	1V0901
		Calibrator Expiry date	05.03.2023

<u>Calibration Values</u>	<u>Parameter</u>	<u>Target</u>	<u>Range</u>	<u>Mean of Measured Values</u>	<u>New Factor</u>	<u>Old Factor</u>
		WBC x 10 ⁹ /L	7.5	8.5-6.5	7.9	98.04
	RBC x10 ¹² /L	4.47	4.17-4.77	4.35	95.27	97.50
	HGB g/L	13.5	12.9-14.1	13.4	98.55	100.00
	MCV fl	88.5	82.5-94.5	84.4	101.09	100.00
	PLT x 10 ⁹ /L	224	1.85-2.65	234	95.77	100.00

This is to certify that the UBM Hematology Analyzer Sr.No: 3020ET-01576 system, installed at Prakash Diagnostics laboratory Bangalore has been calibrated using the standard reference material Vanguard D-Check-D Calibrator. Traceability of D-Check-D Calibrator material from the manufacturer is attached along with this certificate.

Mr. Shivakumar

Application Engineer
Unitron Bio Medicals


Date: 28.12.2022

ASSAY VALUES AND EXPECTED RANGES

Vizsgálati értékek és várható tartományok


LOT: 1V0901
05-03-2023

Instruments:		Urit-2900Plus					
Parameter		CONTROL "Low"		CONTROL "Normal"		CONTROL "High"	
		LOT: 1V0901		LOT: 1V0901		LOT: 1V0901	
		Mean ± Limit	Range Variation	Mean ± Limit	Range Variation	Mean ± Limit	Range Variation
WBC	10 ⁹ /L	2,3 ± 0,5	1,8 - 2,8	7,5 ± 1,0	6,5 - 8,5	18,7 ± 2,5	16,2 - 21,2
RBC	10 ¹² /L	2,43 ± 0,20	2,23 - 2,63	4,47 ± 0,30	4,17 - 4,77	5,48 ± 0,40	5,08 - 5,88
Hgb	g/dL	6,9 ± 0,5	6,4 - 7,4	13,5 ± 0,6	12,9 - 14,1	17,5 ± 0,8	16,7 - 18,3
	g/L	69 ± 5	64 - 74	135 ± 6	129 - 141	175 ± 8	167 - 183
Hct	%	20,5 ± 3,0	17,5 = 23,5	39,5 ± 4,5	35,0 - 44,0	51,7 ± 4,5	47,2 - 56,2
	L/L	0,205 ± 0,030	0,175 - 0,235	0,395 ± 0,045	0,350 - 0,440	0,517 ± 0,045	0,472 - 0,562
MCV	fL	84,5 ± 6,0	78,5 - 90,5	88,5 ± 6,0	82,5 - 94,5	94,4 ± 6,0	88,4 - 100,4
MCH	pg	28,4 ± 3,8	24,6 - 32,2	30,2 ± 3,8	26,4 - 34,0	32,0 ± 3,8	28,2 - 35,8
MCHC	g/dL	33,6 ± 4,8	28,8 - 38,4	34,1 ± 4,8	29,3 - 38,9	33,9 ± 4,8	29,1 - 38,7
	g/L	336 ± 48	288 - 384	341 ± 48	293 - 389	339 ± 48	291 - 387
RDW-CV	%	15,9 ± 5,0	10,9 - 20,9	16,2 ± 5,0	11,2 - 21,2	16,1 ± 5,0	11,1 - 21,1
RDW-SD	fL	48,0 ± 8,0	40,0 - 56,0	50,6 ± 9,0	41,6 - 59,6	53,5 ± 10,0	43,5 - 63,5
Plt	10 ⁹ /L	76 ± 25	51 - 101	224 ± 45	179 - 269	442 ± 65	377 - 507
MPV	fL	10,5 ± 4,0	6,5 - 14,5	9,0 ± 3,0	6,0 - 12,0	8,6 ± 3,0	5,6 - 11,6
LYM#	10 ⁹ /L	1,2 ± 0,3	0,9 - 1,5	2,4 ± 0,7	1,7 - 3,1	4,1 ± 2,1	2,0 - 6,2
MID#	10 ⁹ /L	0,1 ± 0,1	0,0 - 0,2	0,4 ± 0,4	0,0 - 0,8	1,0 ± 0,9	0,1 - 1,9
GRAN#	10 ⁹ /L	1,0 ± 0,3	0,7 - 1,3	4,7 ± 0,7	4,0 - 5,4	13,6 ± 4,1	9,5 - 17,7
LYM%	%	52,6 ± 10,5	42,1 - 63,1	31,4 ± 9,4	22,0 - 40,8	21,9 ± 11,0	10,9 - 32,9
MID%	%	5,2 ± 5,2	0,0 - 10,4	5,7 ± 5,7	0,0 - 11,4	5,3 ± 5,3	0,0 - 10,6
GRAN%	%	42,2 ± 12,7	29,5 - 54,9	62,9 ± 9,4	53,5 - 72,3	72,8 ± 7,3	65,5 - 80,1


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