

Date: 19/07/2021

CALIBRATION CERTIFICATE

This is to state that the hematology cell counter model **YUMIZEN H500** bearing Serial no: **710YOXH01128** at **Prima Diagnostic, Whitefield, Karnataka**, was calibrated with Calibrator on **19/07/2021**.

The Calibration Coefficient is automatically generated after calibration. Subsequently controls were processed and found them in respective range.

Calibrator Used: **ABX MINOCAL**

Lot No.: **CX 460**

Expiry Date: **05/08/2021**

Sr. No	Tested Parameter	Remarks
1	Startup/Blank Cycle	Passed
2	Repeatability/ Precision	Passed
3	Calibration	Passed
4	Quality Control	Passed

Next calibration cycle is due on **18/07/2022**.

Yeshwanth Padashetty



ENGINEER CUSTOMER SUPPORT
Horiba Medical.



Calibration Report

Sample ID CX460

Exp. date 05/08/2021

Lot number CX460

Name ADM MINICAL

Coefficient	WBC	RBC	HGB	HCT	PLT	MPV
New	1.093	0.933	0.953	1.061	1.020	1.034
Current	1.118	0.904	0.946	1.070	1.000	1.190
Target	8.70	4.55	13.4	38.7	250	10.6
Mean	8.90	4.41	13.3	37.8 ^h	245	12.2
CV(%)	0.95	1.29	0.62	1.41	3.01	1.15

Number of calibration run selected for coefficient calculation (minimum 5) 5/5

Sel.	Run Time	WBC (10 ³ /μL)	RBC (10 ⁶ /μL)	HGB (g/dL)	HCT (%)	PLT (10 ³ /μL)	MPV (μm ³)
✓	19/07/2021 06:52:07 PM	8.78	4.42	13.3	37.8	249	12.2 h
✓	19/07/2021 06:53:39 PM	8.94 h	4.46	13.3	38.3	248	12.0 h
✓	19/07/2021 06:55:23 PM	8.98 h	4.44	13.4	38.3	251	12.2 h
✓	19/07/2021 06:56:39 PM	8.85	4.40	13.2	37.8	242	12.3 h
✓	19/07/2021 06:58:03 PM	8.90 h	4.31	13.2	37.0	233	12.0 h

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Repeatability Report (part 1)

Number of repeatability run report selected for statistic calculation 5/5

Coefficient	WBC (10 ³ /μL)	RBC (10 ⁶ /μL)	HGB (g/dL)	HCT (%)	PLT (10 ³ /μL)	MCV (μm ³)	RDW-CV (%)	RDW-SD (μm ³)	P-LCR (%)
Minimum	4.67	3.87	11.4	32.5	164	84.0	13.1	42.5	32.2
Maximum	4.95	4.05	11.6	34.1	182	84.3	13.6	44.4	35.1
Mean	4.87	3.97	11.5	33.4	175	84.1	13.3	43.2	34.0
Difference	0.28	0.18	0.1	1.6	18	0.3	0.5	1.8	2.9
2 SD	0.24	0.14	0.1	1.3	14	0.2	0.4	1.5	2.2
CV(%)	2.41	1.79	0.46	1.88	3.96	0.15	1.47	1.79	3.22

Sel	Run Date &Time	WBC (10 ³ /μL)	RBC (10 ⁶ /μL)	HGB (g/dL)	HCT (%)	PLT (10 ³ /μL)	MCV (μm ³)	RDW-CV (%)	RDW-SD (μm ³)	P-LCR (%)	Operator
✓	19/07/2021 06:39:50 PM	4.67	3.93	11.4	33.0	175	84.0	13.1	42.5	33.8	technician
✓	19/07/2021 06:41:13 PM	4.93	4.01	11.5	33.7	176	84.2	13.3	43.4	34.2	technician
✓	19/07/2021 06:42:33 PM	4.95	3.87	11.5	32.5	164	84.1	13.3	43.4	32.2	technician
✓	19/07/2021 06:44:11 PM	4.94	3.98	11.5	33.4	182	84.0	13.2	42.5	35.1	technician
✓	19/07/2021 06:45:31 PM	4.88	4.05	11.6	34.1	180	84.3	13.6	44.4	34.5	technician

Blank Cycle Logs

Running Date Comments	Operator	WBC 10 ³ /μL	RBC 10 ⁶ /μL	HGE g/dL	PLT 10 ³ /μL	Status	Technical alarms
19/07/2021 07:01:18 AM	none	0.03	0.00	0.0	1	Passed	
19/07/2021 12:55:30 PM	PRIMA	0.02	0.00	0.0	2	Passed	
19/07/2021 05:57:52 PM	technician	0.07	0.00	0.0	1	Passed	

Run Date: 10/07/2021 07:07:25 PM

Operator: technician

Name: ARX0101101 H

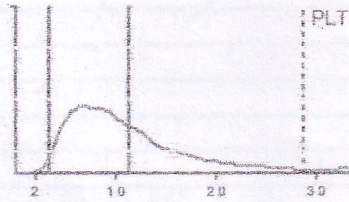
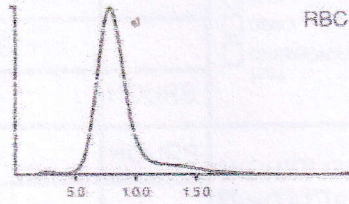
Sample ID: PX4 30H

Level: High

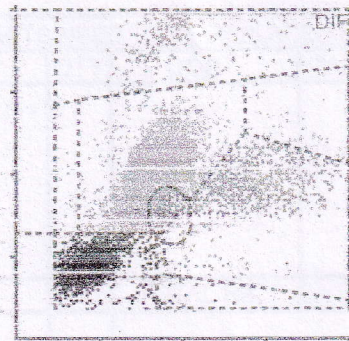
Exp. date: 01/06/2022

Lot number: 8443064

			Range
RBC	5.36	10 ⁶ /μL	5.04 - 5.54
HGB	15.8	g/dL	15.6 - 16.8
HCT	48.0	%	44.6 - 49.6
MCV	89.6	μm ³	84.0 - 94.0
MCH	29.5	pg	28.1 - 33.1
MCHC	33.0	g/dL	31.4 - 37.4
RDW-CV	12.4	%	11.0 - 19.0
RDW-SD	42.5	μm ³	37.0 - 53.0
Range			
PLT	497	10 ³ /μL	474 - 574
MPV	10.2	μm ³	8.3 - 12.3



			Range	
WBC	17.05	10 ³ /μL	14.60 - 19.00	
	#		Range	%
NEU	10.91		9.02 - 12.82	63.9
LYM	3.61		1.36 - 4.36	21.2
MON	1.44		0.00 - 3.70	8.5
EOS	0.80		0.00 - 1.52	4.7
BAS	0.29		0.00 - 0.84	1.7
			Range	
			55.0 - 75.0	
			9.0 - 25.0	
			0.0 - 22.0	
			0.0 - 9.0	
			0.0 - 5.0	



Raw Data

PLT counts (by sections)

S1	S2	S3	S4	S5	S6
415	478	438	435	457	499
S7	S8	S9	S10	S11	S12

RBC counts (by sections)

S1	S2	S3	S4	S5	S6
4793	4783	4739	4842	4837	4680
S7	S8	S9	S10	S11	S12

WBC counts (by sections) and others

S1	S2	S3	S4	S5	S6
1180	1170	1185	1165	1175	1180
S7	S8	S9	S10	S11	S12
1142	1112	1157	1102	1131	1131

HGB measures (Optical intensity)

LI1	LI2	LI3	LI4	LI5	LI6
633	633	633	633	633	633
LI7	LI8	LI9	LI10	LI11	LI12
633	633	633	633	633	633
LI13					
633					

RMeasured : 9789
Correlated : 9770

Manufacturer: Beckman Coulter

Run Date: 19/07/2021 07:14:29 PM

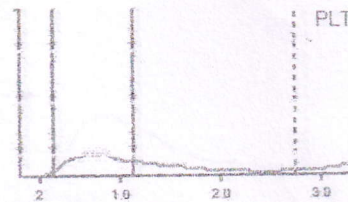
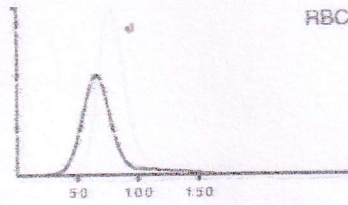
Operator: technician

Name: AHXDIFFRAI
Level: Low

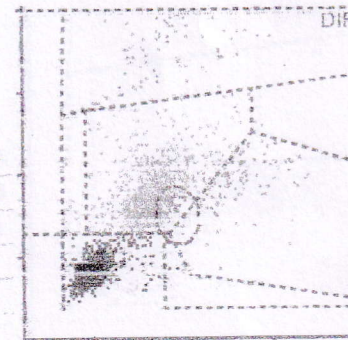
Sample ID: PX4401
Exp. date: 05/09/2021

Lab number: 004301

			Range
RBC	2.21	10 ⁶ /μL	1.99 - 2.31
HGB	5.5	g/dL	5.1 - 5.9
HCT	16.8	%	14.8 - 17.8
MCV	76.1	μm ³	71.0 - 81.0
MCH	25.1	pg	23.6 - 27.6
MCHC	33.0	g/dL	30.7 - 36.7
RDW-CV	15.1	%	13.0 - 21.0
RDW-SD	42.5	μm ³	32.0 - 48.0
Range			
PLT	75	10 ³ /μL	46 - 86
MPV	11.1	μm ³	8.0 - 12.0



			Range	
WBC	2.88	10 ³ /μL	2.25 - 3.05	
Range				
	#	Range	%	Range
NEU	1.33	1.01 - 1.71	46.3	41.5 - 61.5
LYM	1.14	0.22 - 1.32	39.6	14.0 - 44.0
MON	0.14	0.00 - 0.50	4.9	0.0 - 19.0
EOS	0.21	0.00 - 0.38	7.2	0.0 - 14.0
BAS	0.06	0.00 - 0.16	2.0	0.0 - 6.0



Raw Data

PLT counts (by sections)

S1	S2	S3	S4	S5	S6
86	96	96	111	104	119
S7	S8	S9	S10	S11	S12

RBC counts (by sections)

S1	S2	S3	S4	S5	S6
2170	2175	2249	2209	2178	2143
S7	S8	S9	S10	S11	S12

WBC counts (by sections) and others

S1	S2	S3	S4	S5	S6
280	285	288	300	288	330
S7	S8	S9	S10	S11	S12

HGB measures (Optical intensity)

LI1	LI2	LI3	LI4	LI5	LI6
1986	1987	1985	1980	1980	1980
LI7	LI8	LI9	LI10	LI11	LI12
1980	1980	1980	1981	1981	1981
LI13					
1984					

RMeasured: 2030
Correlated: 2010

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