

HORIBA

Explore the future

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HIN/MED/2023-2024/00321

18th May 2023.

CALIBRATION CERTIFICATE

This is to certify that the Hematology Analyzer ABX Yumizen H550 bearing serial number: 908YAXH02532 installed at REDCLIFFE LIFETECH PVT LTD, JODHPUR Calibrated on 18th May 2023.

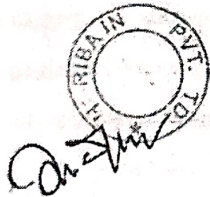
Calibrator : ABX MINOCAL

Lot No. : CX483

Expiry Date : 05th August 2023.

The reports of Blank Cycle, Repeatability and Calibration Values were all found in acceptable range.

Next calibration cycle is due on 17th May 2024.

A circular stamp with the text "H. RIBAIN PVT. LTD." around the perimeter. A handwritten signature is written across the stamp.

Shrish Dixit

(Head- Products & Marketing)

For Horiba India Pvt. Ltd.

Explore the Future

Automotive Test Systems | Process & Environment | Medical | Semiconductor | Scientific

HORIBA
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Scanned with OKEN Scanner

Calibration Report

Sample ID CX483
Lot number CX483

Name ABX MINOCAL

Exp. date 05/07/2023
Modified on

Coefficient	WBC	RBC	HGB	HCT	PLT	MPV
New	1.203 H	0.965	1.033	1.027	0.992	1.028
Current	1.203 H	0.965	1.033	1.027	0.992	1.028
Target	8.90	4.52	12.8	37.1	258	10.3
Mean	8.51	4.52	12.7	37.2	268	10.3
CV(%)	1.46	1.42	0.95	1.74	2.97	0.98

Number of calibration run selected for coefficient calculation (minimum 5) 10/11

Sel.	Run Time	WBC (10 ³ /μL)	RBC (10 ⁶ /μL)	HGB (g/dL)	HCT (%)	PLT (10 ³ /μL)	MPV (μm ³)
	18/05/2023 03:50:04 PM	8.56 I	4.45 I	12.6 I	36.9	266	10.2
✓	18/05/2023 03:51:39 PM	8.80	4.62 h	12.7	38.5 h	264	10.2
✓	18/05/2023 03:53:13 PM	8.45 I	4.48	12.6	36.6	267	10.4
✓	18/05/2023 03:54:47 PM	8.50 I	4.48	12.7	36.8	266	10.3
✓	18/05/2023 03:56:24 PM	8.60 I	4.52	12.6 I	37.4	265	10.2
✓	18/05/2023 03:58:00 PM	8.40 I	4.57	12.9	37.7	269 h	10.1
✓	18/05/2023 03:59:40 PM	8.46 I	4.45 I	12.7	36.7	265	10.2
✓	18/05/2023 04:01:16 PM	8.55 I	4.50	12.6 I	36.9	268 h	10.3
✓	18/05/2023 04:02:53 PM	8.39 I	4.42 I	12.5 I	36.3	252	10.3
✓	18/05/2023 04:04:31 PM	8.43 I	4.59 h	12.8	37.7	281 h	10.4
✓	18/05/2023 04:06:10 PM	8.48 I	4.52	12.7	37.1	279 h	10.2

Repeatability Report (part 1)

Number of repeatability run report selected for statistic calculation 10/10

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	7.67	3.78	11.1	32.9	188	86.5	12.9	49.6	56.9	
Maximum	8.27	3.92	11.4	34.3	210	87.5	13.9	52.9	60.8	
Mean	7.97	3.86	11.2	33.6	198	87.1	13.3	51.2	59.6	
Difference	0.60	0.14	0.4	1.4	22	1.0	0.9	3.4	4.0	
2 SD	0.39	0.09	0.3	0.9	15	0.6	0.6	2.1	2.4	
CV(%)	2.44	1.15	1.17	1.41	3.66	0.37	2.07	2.04	2.00	
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
✓ 22/05/2023 07:25:40 PM	8.13	3.90	11.4	34.1	197 *	87.5	13.9	52.9	59.3	technician
✓ 22/05/2023 07:27:15 PM	7.78	3.85	11.1	33.5	192 *	86.9	13.2	50.4	60.2	technician
✓ 22/05/2023 07:28:49 PM	7.97	3.88	11.3	33.9	199 *	87.3	13.3	50.4	56.9	technician
✓ 22/05/2023 07:30:29 PM	7.72	3.83	11.1	33.1	206 *	86.5	12.9	49.6	58.4	technician
✓ 22/05/2023 07:32:09 PM	7.97	3.92	11.2	34.3	201 *	87.4	13.5	52.1	59.4	technician
✓ 22/05/2023 07:35:32 PM	8.00	3.89	11.3	33.9	210 *	87.0	13.0	50.4	59.6	technician
✓ 22/05/2023 07:37:06 PM	8.27	3.90	11.4	34.0	203 *	87.3	13.5	52.1	60.5	technician
✓ 22/05/2023 07:38:40 PM	8.10	3.82	11.1	33.4	202 *	87.3	13.5	52.1	60.6	technician
✓ 22/05/2023 07:48:20 PM	7.67	3.78	11.2	32.9	189 *	86.9	13.3	51.2	59.9	technician
✓ 22/05/2023 07:49:58 PM	8.11	3.84	11.1	33.3	188 *	86.7	13.2	51.2	60.8	technician

*Amid
Chouhan*



Repeatability Report (part 2)

Number of repeatability run report selected for statistic calculation 10/10

Coefficient	NEU% (%)	LYM% (%)	MON% (%)	EOS% (%)	BAS% (%)	LIC% (%)	
Minimum	59.5	30.9	2.5	2.7	0.2	0.3	
Maximum	62.9	32.9	3.1	4.2	0.7	0.4	
Mean	61.0	32.1	2.8	3.3	0.4	0.3	
Difference	3.4	2.0	0.6	1.5	0.5	0.1	
2 SD	1.7	1.2	0.4	0.9	0.3	0.1	
CV(%)	1.43	1.79	7.06	13.63	37.17	13.18	

Run Date &Time	NEU% (%)	LYM% (%)	MON% (%)	EOS% (%)	BAS% (%)	LIC% (%)	Operator
✓ 22/05/2023 07:25:40 PM	62.9	30.9	2.7	2.9	0.3	0.3	technician
✓ 22/05/2023 07:27:15 PM	60.8	31.8	2.9	3.7	0.4	0.4	technician
✓ 22/05/2023 07:28:49 PM	61.4	31.8	2.9	3.4	0.2	0.3	technician
✓ 22/05/2023 07:30:29 PM	60.3	32.5	2.9	3.7	0.3	0.3	technician
✓ 22/05/2023 07:32:09 PM	60.7	31.8	3.1	3.5	0.6	0.3	technician
✓ 22/05/2023 07:35:32 PM	61.4	32.4	2.5	2.7	0.7	0.3	technician
✓ 22/05/2023 07:37:06 PM	59.5	32.9	2.6	4.2	0.5	0.3	technician
✓ 22/05/2023 07:38:40 PM	61.0	32.4	2.7	3.2	0.4	0.3	technician
✓ 22/05/2023 07:48:20 PM	61.3	31.9	3.0	3.2	0.3	0.3	technician
✓ 22/05/2023 07:49:58 PM	61.1	32.6	2.6	2.9	0.4	0.4	technician



QC - Control Run Report

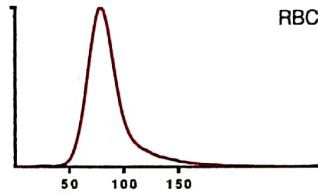
Run Date 18/05/2023 09:26:01 AM

Operator technician

Name ABXdifftrol N
Level Normal
Lot number PX441N

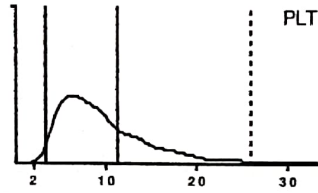
Sample ID PX441N
Exp. date 05/07/2023

			Range
RBC	4.62	10 ⁶ /μL	4.39 - 4.79
HGB	12.9	g/dL	12.7 - 13.7
HCT	40.6	%	37.9 - 41.9
MCV	87.9	μm ³	82.0 - 92.0
MCH	28.1	pg	26.8 - 30.8
MCHC	31.9	g/dL	30.1 - 36.1
RDW-CV	12.2	%	11.0 - 19.0

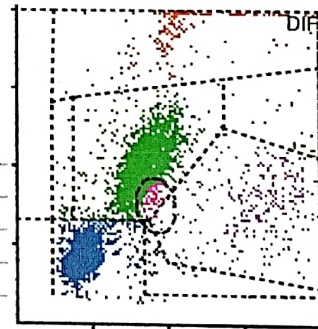


Alarms

			Range
PLT	253	10 ³ /μL	210 - 270
MPV	9.2	μm ³	7.3 - 11.3



WBC	8.31	10 ³ /μL	Range	
	#	Range	%	Range
NEU	4.03	2.97 - 4.77	48.6	37.2 - 57.2
LYM	3.35	2.74 - 4.14	40.3	34.0 - 50.0
MON	0.46	0.00 - 0.80	5.5	0.0 - 9.8
EOS	0.34	0.00 - 0.48	4.1	0.0 - 5.8
BAS	0.13	0.00 - 0.20	1.5	0.0 - 3.0



Raw Data

PLT counts (by sections)						RBC counts (by sections)					
S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6
248	234	247	255	280	244	4181	4093	3962	4166	4104	4003
S7	S8	S9	S10	S11	S12	S7	S8	S9	S10	S11	S12
225	237	235	232	250	270	4113	3987	4060	4076	4106	4072
WBC counts (by sections) and others						HBG measures (Optical intensity)					
S1	S2	S3	S4	S5	S6	LI1	LI2	LI3	LI4	LI5	LI6
545	554	543	528	523	527	3651	3657	3657	900	900	900
S7	S8	S9	S10	S11		LI7	LI8	LI9	LI10	LI11	LI12
524	463	557	543	563		899	900	900	899	900	899
RMeasured :	5388					LI13					
Correlated :	5363					899					
Optical intensity	193										

QC - Control Run Report

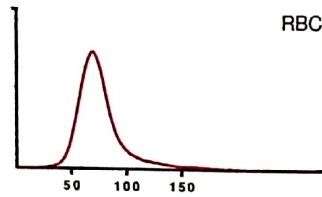
Run Date 18/05/2023 09:28:08 AM

Operator technician

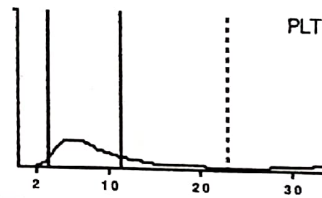
Name ABXdifftrol L
Level Low
Lot number PX441L

Sample ID PX441L
Exp. date 05/07/2023

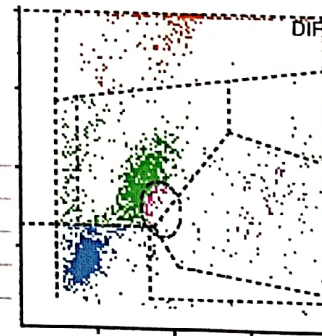
			Range
RBC	2.30	10 ⁶ /μL	2.16 - 2.48
HGB	5.7	g/dL	5.4 - 6.2
HCT	18.1	%	16.2 - 19.2
MCV	78.6	μm ³	71.5 - 81.5
MCH	24.7	pg	23.0 - 27.0
MCHC	31.4	g/dL	29.7 - 35.7
RDW-CV	14.5	%	12.0 - 20.0



			Range
PLT	79	10 ³ /μL	48 - 88
MPV	8.8	μm ³	7.1 - 11.1



			Range
WBC	3.19	10 ³ /μL	2.50 - 3.30
	#	Range	%
NEU	1.33	0.84 - 1.54	41.8
LYM	1.20	0.88 - 1.54	37.4
MON	0.19	0.00 - 0.42	6.0
EOS	0.40	0.00 - 0.50	12.6
BAS	0.07	0.00 - 0.10	2.2



Alarms

Raw Data

PLT counts (by sections)

S1	S2	S3	S4	S5	S6
113	102	108	120	124	126
S7	S8	S9	S10	S11	S12
111	137	109	112	108	132

RBC counts (by sections)

S1	S2	S3	S4	S5	S6
2202	2245	2183	2150	2204	2181
S7	S8	S9	S10	S11	S12
2199	2213	2184	2189	2162	2217

WBC counts (by sections) and others

S1	S2	S3	S4	S5	S6
189	192	236	196	194	206
S7	S8	S9	S10	S11	
199	228	210	219	193	

HGB measures (Optical Intensity)

LI1	LI2	LI3	LI4	LI5	LI6
3656	3656	3656	1942	1942	1941
LI7	LI8	LI9	LI10	LI11	LI12
1942	1943	1942	1942	1943	1943
LI13					
1944					

RMeasured : 2162
 Correlated : 2125
 Optical intensity : 193

QC - Control Run Report

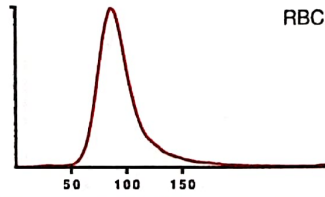
Run Date | 11/07/2023 09:55:04 AM

Operator | RCLJOD

Name | ABXdiffrol H
Level | High
Lot number | PX441H

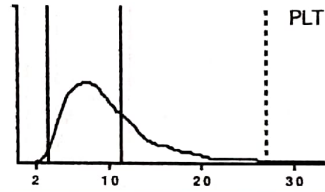
Sample ID | PX441H
Exp. date | 02/10/2023

			Range
RBC	5.02	10 ⁶ /μL	4.86 - 5.36
HGB	15.5	g/dL	15.1 - 16.3
HCT	48.2	%	44.5 - 49.5
MCV	96.1	μm ³	87.0 - 97.0
MCH	30.9	pg	28.2 - 33.2
MCHC	32.2	g/dL	30.4 - 36.4
RDW-CV	12.4	%	10.0 - 18.0

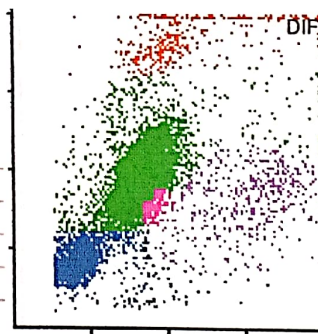


Alarms

			Range
PLT	493	10 ³ /μL	439 - 539
MPV	9.3	μm ³	7.3 - 11.3



			Range
WBC	18.20	10 ³ /μL	16.20 - 20.60
	#	Range	%
NEU	12.83	10.67 -	70.4
LYM	3.29	2.12 - 5.12	18.1
MON	0.86	0.00 - 1.48	4.7
EOS	0.72	0.00 - 1.44	4.0
BAS	0.50	0.00 - 1.50	2.8



Slide Review

- | | | |
|---------------------|---------------|-----------------|
| Neutrophil | Myeloblast | Anisocytosis |
| Lymphocyte | Promyelocyte | Hypochromia |
| Monocyte | Myelocyte | Polychromasia |
| Eosinophil | Metamyelocyte | Poikilocytosis |
| Basophil | Blast | Microcytosis |
| Atypical Lymphocyte | Target Cell | Macrocytosis |
| Other | Sickle Cell | Platelet Clumps |

Reviewed on _____ by _____ Signature :

QC - Control Run Report

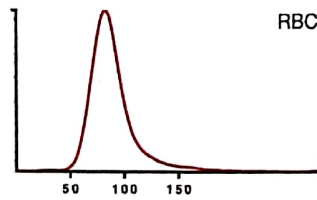
Run Date 11/07/2023 09:50:21 AM

Operator RCLJOD

Name ABXdifftrol N
Level Normal
Lot number PX441N

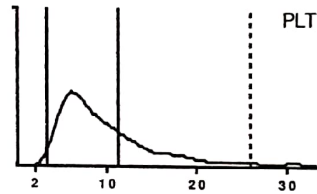
Sample ID PX441N
Exp. date 02/10/2023

			Range
RBC	4.57	10 ⁶ /μL	4.39 - 4.79
HGB	13.4	g/dL	12.7 - 13.7
HCT	41.0	%	37.9 - 41.9
MCV	89.7	μm ³	82.0 - 92.0
MCH	29.3	pg	26.8 - 30.8
MCHC	32.7	g/dL	30.1 - 36.1
RDW-CV	11.9	%	11.0 - 19.0

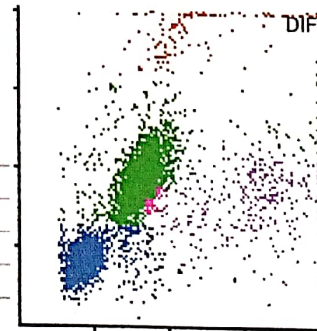


Alarms

			Range
PLT	238	10 ³ /μL	210 - 270
MPV	9.1	μm ³	7.3 - 11.3



			Range
WBC	8.51	10 ³ /μL	7.20 - 9.20
	#	Range	%
NEU	4.04	2.97 - 4.77	47.5
LYM	3.59	2.74 - 4.14	42.1
MON	0.51	0.00 - 0.80	6.0
EOS	0.26	0.00 - 0.48	3.1
BAS	0.11	0.00 - 0.50	1.3



Slide Review

Neutrophil	Myeloblast	Anisocytosis
Lymphocyte	Promyelocyte	Hypochromia
Monocyte	Myelocyte	Polychromasia
Eosinophil	Metamyelocyte	Poikilocytosis
Basophil	Blast	Microcytosis
Atypical Lymphocyte	Target Cell	Macrocytosis
Other	Sickle Cell	Platelet Clumps

Reviewed on _____ by _____ Signature :

QC - Control Run Report

Run Date 11/07/2023 11:19:02 AM

Operator RCLJOD

Name ABXdifftrol L

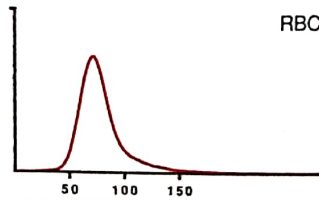
Sample ID PX441L

Level Low

Exp. date 02/10/2023

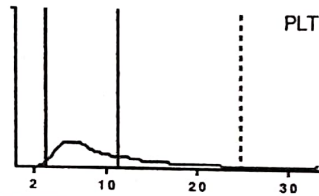
Lot number PX441L

			Range
RBC	2.21	10 ⁶ /μL	2.16 - 2.48
HGB	5.6	g/dL	5.4 - 6.2
HCT	17.9	%	16.2 - 19.2
MCV	80.7	μm ³	71.5 - 81.5
MCH	25.5	pg	23.0 - 27.0
MCHC	31.6	g/dL	29.7 - 35.7
RDW-CV	14.4	%	12.0 - 20.0

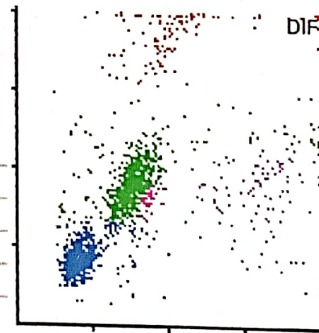


Alarms

			Range
PLT	71	10 ³ /μL	48 - 88
MPV	9.6	μm ³	7.1 - 11.1



			Range
WBC	2.86	10 ³ /μL	2.50 - 3.30
	#	Range	%
NEU	1.21	0.84 - 1.54	42.5
LYM	1.21	0.88 - 1.54	42.2
MON	0.17	0.00 - 0.42	5.9
EOS	0.21	0.00 - 0.36	7.3
BAS	0.06	0.00 - 0.22	2.1



Slide Review

Neutrophil	Myeloblast	Anisocytosis
Lymphocyte	Promyelocyte	Hypochromia
Monocyte	Myelocyte	Polychromasia
Eosinophil	Metamyelocyte	Poikilocytosis
Basophil	Blast	Microcytosis
Atypical Lymphocyte	Target Cell	Macrocytosis
Other	Sickle Cell	Platelet Clumps

Reviewed on _____ by _____ Signature :

ABX Minocal



LOT CX 472
Rev 1

CAL

(Exp.) 2022-08-05
(YYYY-MM-DD)

PARAMETRES PARAMETERS	UNITES UNITS	WHITEDIFF								TOLERANCES TOLERANCE	
		TUBES N°1 & N°2				TUBES N°3					
		H550	H500 OT H500 CT			H500 OT	H500 CT H550				
GB WBC	10 ³ /mm ³ ; 10 ⁹ /l	8.90	8.90			9.00	9.00				± 0.20
GR RBC	10 ¹² /mm ³ ; 10 ¹² /l	4.57	4.57			4.48	4.48				± 0.06
HB HGB	g/dl	13.2	13.2			13.3	13.3				± 0.2
	g/l	132	132			133	133				± 2
	mmol/l	8.20	8.20			8.26	8.26				± 0.12
HT HCT	%	38.6	38.6			35.0	35.0				± 1.0
	l/l	0.386	0.386			0.350	0.350				± 0.010
PLA PLT	10 ⁹ /mm ³ ; 10 ⁹ /l	256	256			255	255				± 10
WMP MPV	µm ³ ; fl	10.9	10.9			10.6	10.6				± 0.5

Ref: TEMB-0387 Rev 48 BACK / VERSO 1300105208