

HORIBA

Medical

HORIBA India Private Limited

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CIN : U73100DL2006PTC153232

HIN/MED/2023-2024 /1055090
27TH DEC 2023

CALIBRATION **CERTIFICATE**

This is to certify that the Hematology Analyzer Horiba PENTRA XL80 bearing serial number 209YOXH03936 installed at REDCLIFFE LIFETECH LAB JALANDHAR as calibrated on 27TH DEC 2023.

Calibrator : ABX
MINOCAL Lot No. :
CX489
Expiry Date : 05th JAN 2023

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

Next calibration cycle is due on 26TH DEC 2024



Shrish Dixit

**(Head- Products &
Marketing) For
Horiba India Pvt.
Ltd.**

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CIN : U73100DL2006PTC1M232

Manufactured By:
HORIBA India Private Limited
 (A subsidiary of **HORIBA** Limited Japan)
 Plot No.26, Sector-7, I.I.E, SIDCUL,
 Haridwar-249403, Uttarakhand, India
 Toll Free No.: 1800 103 4470

ABX Minocal



LOT CX 489
 Rev 1

CAL

(Exp.) 2024-01-05
 (YYYY - MM - DD)

PARAMETRES PARAMETERS	UNITES UNITS	WHITEDIFF							TOLERANCES TOLERANCE	
		YUMIZEN V1.0 to V2.x			YUMIZEN since V3					
		H550	H500 OT H500 CT		H500 OT	H500 CT H550				
GB WBC	10 ³ /mm ³ ;10 ⁹ /l	8.80	8.80		8.80	8.80				± 0.20
GR RBC	10 ⁶ /mm ³ ;10 ¹² /l	4.50	4.50		4.45	4.45				± 0.06
HB HGB	g/dl	13.0	13.0		13.1	13.1				± 0.2
	g/l	130	130		131	131				± 2
	mmol/l	8.07	8.07		8.14	8.14				± 0.12
HT HCT	%	37.8	37.8		36.5	36.4				± 1.0
	l/l	0.378	0.378		0.365	0.364				± 0.010
PLA PLT	10 ³ /mm ³ ;10 ⁹ /l	247	247		252	259				± 10
VMP MPV	μm ³ ; fl	10.7	10.7		N/A	N/A				± 0.5

Ref: TEMP-0387 Rev.50 BACK /VERSO 1300113555

*Blood Control Vial should be dispose off as per State Government Bio-Medical Waste Management Rule.

ABX Minocal



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LOT		CX 489		CAL						(Exp.) 2024-01-05 <small>(YYYY-MM-DD)</small>		
		Rev 1		ABX Lysebio								
PARAMETRES PARAMETERS	UNITES UNITS	YUMIZEN									TOLERANCES TOLERANCE	
		H1500 H2500	H1500 H2500									
		V1.0 to V1.4	Since V1.7									
GB WBC	10 ³ /mm ³ ;10 ⁹ /l	8.55	8.50								± 0.20	
GR RBC	10 ⁶ /mm ³ ;10 ¹² /l	4.50	4.53								± 0.06	
HB HGB	g/dl	13.3	13.3								± 0.2	
	g/l	133	133								± 2	
	mmol/l	8.26	8.26								± 0.12	
PLA PLT	10 ³ /mm ³ ;10 ⁹ /l	244	236								± 10	
VGM MCV	µm ³ ; fl	83.0	84.2								± 4.0	

1300116192
Ref: TEMP-0387 Rev.50

*Blood Control Vial should be dispose off as per State Government Bio-Medical Waste Management Rule.



Blank Cycle Logs

Running Date Comments	Operator	WBC 10 ³ /μL	RBC 10 ⁹ /μL	HGB g/dL	PLT 10 ³ /μL	Status	Technical alarms
27/12/2023 08:56:35 AM	REDCLIFFE	0.00	0.00	0.0	2	Passed	
27/12/2023 10:10:18 AM	technician	0.03	0.00	0.0	0	Passed	
27/12/2023 02:38:07 PM	technician	0.01	0.00	0.0	0	Passed	



QC - Control Run Report

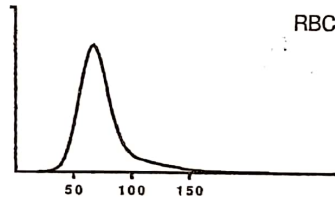
Run Date 27/12/2023 03:16:26 PM

Operator technician

Name ABXdifftrol L
Level Low
Lot number PX445L

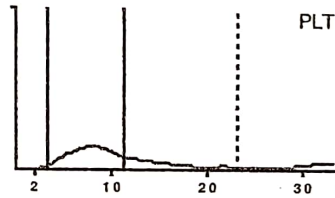
Sample ID PX445L
Exp. date 05/03/2024

			Range
RBC	2.40	10 ⁶ /μL	2.17 - 2.49
HGB	6.0	g/dL	5.5 - 6.3
HCT	18.6	%	16.6 - 19.6
MCV	77.8	μm ³	72.5 - 82.5
MCH	25.1	pg	23.3 - 27.3
MCHC	32.3	g/dL	29.7 - 35.7
PDW-CV	16.4	%	14.0 - 22.0

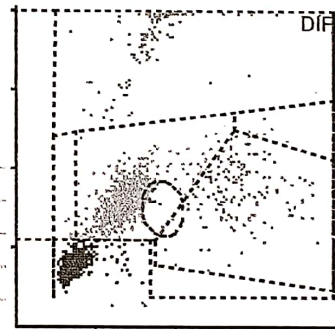


Alarms

			Range
PLT	64	10 ³ /μL	49 - 89
MPV	9.2	μm ³	7.5 - 11.5



WBC	3.15	10 ³ /μL	Range	
	#	Range	%	Range
NEU	1.45	0.92 - 1.62	46.1	32.3 - 52.3
LYM	1.24	0.83 - 1.49	39.3	26.5 - 50.5
MON	0.25	0.00 - 0.52	7.9	0.0 - 17.4
EOS	0.19	0.00 - 0.34	5.9	0.0 - 11.4
BAS	0.02	0.00 - 0.28	0.8	0.0 - 9.6



Raw Data

PLT counts (by sections)

S1	S2	S3	S4	S5	S6
71	92	113	109	82	102
S7	S8	S9	S10	S11	S12
81	85	89	88	90	103

RBC counts (by sections)

S1	S2	S3	S4	S5	S6
2270	2295	2390	2329	2271	2282
S7	S8	S9	S10	S11	S12
2341	2271	2188	2348	2245	2235

WBC counts (by sections) and others

S1	S2	S3	S4	S5	S6
236	195	192	185	189	199
S7	S8	S9	S10	S11	
207	212	193	206	186	

HGB measures (Optical intensity)

LI1	LI2	LI3	LI4	LI5	LI6
3840	3841	3841	1977	1978	1977
LI7	LI8	LI9	LI10	LI11	LI12
1978	1978	1979	1979	1978	1978
LI13					
1979					

RMeasured : 2097
Correlated : 2084
Optical intensity 199

QC - Control Run Report

Run Date 27/12/2023 03:20:59 PM

Operator technician

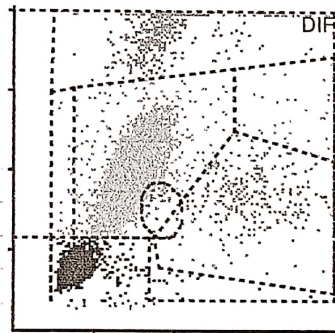
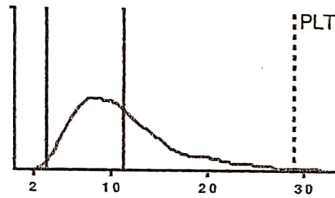
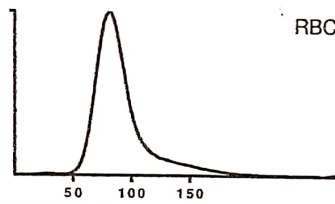
Name ABXdiffrol H
Level High
Lot number PX445H

Sample ID PX445H
Exp. date 05/03/2024

			Range
RBC	5.09	10 ⁶ /μL	4.76 - 5.26
HGB	15.5	g/dL	14.9 - 16.1
HCT	47.6	%	44.6 - 49.6
MCV	93.5	μm ³	89.0 - 99.0
MCH	30.4	pg	28.4 - 33.4
MCHC	32.5	g/dL	29.9 - 35.9
RDW-CV	13.0	%	10.0 - 18.0

			Range
PLT	460	10 ³ /μL	425 - 525
MPV	10.0	μm ³	8.2 - 12.2

			Range		Range
WBC	19.13	10 ³ /μL	16.20 - 20.60		
	#		Range	%	Range
NEU	13.83		10.50 -	72.2	57.4 - 77.4
LYM	3.83		2.49 - 5.49	20.0	13.7 - 29.7
MON	0.56		0.00 - 1.18	3.0	0.0 - 6.4
EOS	0.86		0.06 - 1.64	4.5	0.3 - 8.9
BAS	0.05		0.00 - 1.14	0.3	0.0 - 6.2



Alarms

Raw Data

PLT counts (by sections)						RBC counts (by sections)					
S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6
402	407	424	422	420	425	4422	4542	4472	4475	4470	4464
S7	S8	S9	S10	S11	S12	S7	S8	S9	S10	S11	S12
384	379	381	386	401	413	4375	4458	4371	4447	4415	4562
WBC counts (by sections) and others						HBG measures (Optical intensity)					
S1	S2	S3	S4	S5	S6	LI1	LI2	LI3	LI4	LI5	LI6
1171	1178	1263	1241	1255	1159	3836	3835	3824	746	746	746
S7	S8	S9	S10	S11		LI7	LI8	LI9	LI10	LI11	LI12
1156	1212	1250	1172	1189		746	746	746	746	746	746
RMeasured : 10885						LI13					
Correlated : 10852						746					
Optical intensity 200											

QC - Control Run Report

Run Date 27/12/2023 03:18:54 PM

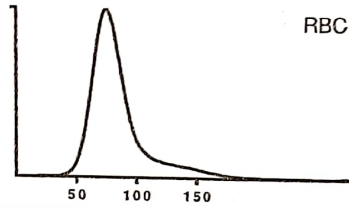
Operator technician

Name ABXdifftrol N
Level Normal
Lot number PX445N

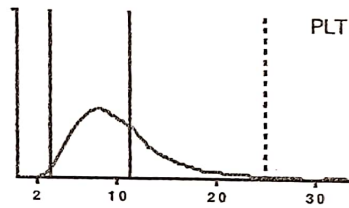
Sample ID PX445N
Exp. date 05/03/2024

			Range
RBC	4.58	10 ⁶ /μL	4.37 - 4.77
HGB	13.1	g/dL	12.6 - 13.6
HCT	39.8	%	37.8 - 41.8
MCV	86.9	μm ³	82.0 - 92.0
MCH	28.7	pg	26.7 - 30.7
MCHC	33.0	g/dL	29.9 - 35.9
W-CV	13.4	%	11.0 - 19.0

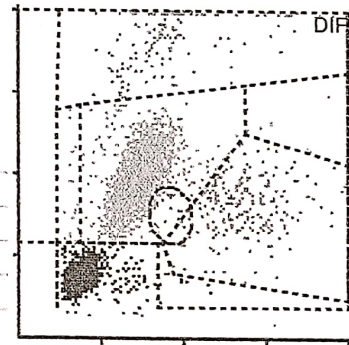
Alarms



			Range
PLT	231	10 ³ /μL	203 - 263
MPV	9.1	μm ³	7.5 - 11.5



			Range	
WBC	8.60	10 ³ /μL	7.50 - 9.50	
	#		Range	%
NEU	4.23		3.02 - 4.82	49.4
LYM	3.63		2.94 - 4.34	42.2
MON	0.40		0.00 - 0.90	4.6
EOS	0.31		0.04 - 0.60	3.5
BAS	0.03		0.00 - 0.34	0.3
			Range	
			36.1 - 56.1	
			34.8 - 50.8	
			0.0 - 10.6	
			0.5 - 7.1	
			0.0 - 4.0	



Raw Data

PLT counts (by sections)

S1	S2	S3	S4	S5	S6
196	235	216	262	245	250
S7	S8	S9	S10	S11	S12
193	206	223	226	254	260

RBC counts (by sections)

S1	S2	S3	S4	S5	S6
4030	3981	4184	4156	4067	4196
S7	S8	S9	S10	S11	S12
4151	3986	3979	4027	4089	4000

WBC counts (by sections) and others

S1	S2	S3	S4	S5	S6
523	537	581	561	572	511
S7	S8	S9	S10	S11	S12
543	549	520	527	567	

HBG measures (Optical intensity)

LI1	LI2	LI3	LI4	LI5	LI6
3842	3842	3842	938	939	939
LI7	LI8	LI9	LI10	LI11	LI12
939	938	938	939	939	938
LI13					
939					

RMeasured : 5388
Correlated : 5332
Optical intensity 200