

HORIBA

Explore the future

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CIN : U73100DL2006PTC153232

HIN/MED/2023/000032

14th January 2023

CALIBRATION CERTIFICATE

This is to certify that the hematology analyzer ABX Micros ES 60 bearing serial no: **708ESOH12225** installed at SRL LTD. (DURGAPUR) was calibrated on 13TH JANUARY 2023.

Calibrator : ABX MINOCAL
Lot No. : CX478
Expiry Date : 05TH FEB 2023

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

Next calibration cycle is due on 13TH JANUARY 2024



Shrish Dixit

(Marketing Manager)

For Horiba India Pvt Ltd

QC

Ext. QC

XB

Cal

QCP

Calibration result

Date

User

Lot number

Name

13/01/2023

tech

cx478

MINOCAL

Summary view

Alarms

Stat	WBC 10 ³ /mm ³	RBC 10 ⁶ /mm ³	HGB g/dL	HCT %	PLT 10 ³ /mm ³	MPV μm ³
Average	9.0	4.60	13.1	38.4	229	8.8
Target	8.9	4.54	13.6	38.1	227	8.7
CV	0.8	0.71	0.4	0.7	1	0.6
%BAL	0.9	1.31	3.3	0.9	1	1.1
Coef						
Old	1.02	0.82	1.22	1.00	1.04	0.98
▶ Auto	1.01	0.81	1.26	0.99	1.03	0.97
Manu						



Alarms:

[Empty rectangular box]

	WBC 10 ³ /mm ³	RBC 10 ⁶ /mm ³	HGB g/dL	HCT %	PLT 10 ³ /mm ³	MPV μm ³
Average	9.0	4.60	13.1	38.4	229	8.8
%BAL	0.9	1.31	3.3	0.9	1	1.1
CV	0.8	0.71	0.4	0.7	1	0.6
New Coef	1.01	0.81	1.26	0.99	1.03	0.97
Old Coef	1.02	0.82	1.22	1.00	1.04	0.98
Target	8.9	4.54	13.6	38.1	227	8.7
A1	8.9	4.41	12.8	37.0	225	9.4
2	8.9	4.56	13.1	38.1	233	8.7
3	9.0	4.62	13.2	38.6	226	8.9
4	8.9	4.56	13.1	38.1	228	8.8
5	9.1	4.63	13.2	38.7	229	8.8
6	9.0	4.62	13.2	38.6	228	8.8
7						
8						
9						
10						
11						

D. J. Baker



Date : 13/01/2023 02:53:09
PM
User : tech

PATIENT RESULT REPORT

SID : REP *f-Study-2*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 02:53:
06 PM
Operator : tech

RESULT

Analyser Alarms
Analysis Alarms SCH, G3

WBC	7.8		$10^3/mm^3$
LYM%	38.5		%
MON%	7.5		%
GRA%	54.0		%
LYM#	2.90		$10^3/mm^3$
MON#	0.50		$10^3/mm^3$
GRA#	4.40		$10^3/mm^3$
RBC	5.97	H	$10^6/mm^3$
HGB	15.7		g/dl
HCT	50.1		%
MCV	84		μm^3
MCH	26.4	L	pg
MCHC	31.4	L	g/dl
RDW-CV	14.6		%
RDW-SD	44		μm^3
PLT	115	*L	$10^3/mm^3$
MPV	10.9	*H	μm^3
PCT	0.125	*L	%
PDW	17.7	*	%

RUO Parameters for
Research Use Only

Date : 13/01/2023 02:54:45
PM
User : tech

PATIENT RESULT REPORT

SID : REP *precision*
PID :
Name : *Study-1*
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 02:54:
43 PM
Operator : tech

RESULT

Analyser Alarms
Analysis Alarms G3

WBC	7.7		$10^3/mm^3$
LYM%	38.1		%
MON%	6.6		%
GRA%	55.3		%
LYM#	2.90		$10^3/mm^3$
MON#	0.50		$10^3/mm^3$
GRA#	4.30		$10^3/mm^3$
RBC	5.96	H	$10^6/mm^3$
HGB	15.7		g/dl
HCT	49.6		%
MCV	83		μm^3
MCH	26.4	L	pg
MCHC	31.8		g/dl
RDW-CV	14.3		%
RDW-SD	43		μm^3
PLT	105	\$L	$10^3/mm^3$
MPV	11.1	\$H	μm^3
PCT	0.116	\$L	%
PDW	19.3	\$H	%

RUO Parameters for
Research Use Only

Date : 13/01/2023 02:56:18
PM
User : tech

PATIENT RESULT REPORT

SID : REP *precision*
PID : *10*
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 02:56:
16 PM
Operator : tech

RESULT

Analyser Alarms
Analysis Alarms SCH, G3

WBC	7.5		$10^3/mm^3$
LYM%	38.9		%
MON%	7.1		%
GRA%	54.0		%
LYM#	2.90		$10^3/mm^3$
MON#	0.50		$10^3/mm^3$
GRA#	4.10		$10^3/mm^3$
RBC	5.87	H	$10^6/mm^3$
HGB	15.6		g/dl
HCT	49.1		%
MCV	84		μm^3
MCH	26.5	L	pg
MCHC	31.7	L	g/dl
RDW-CV	14.5		%
RDW-SD	44		μm^3
PLT	114	*L	$10^3/mm^3$
MPV	10.7	*H	μm^3
PCT	0.121	*L	%
PDW	17.2	*	%

RUO Parameters for
Research Use Only

Dr. Debarshi Saha, MD (Path.)
SRL LIMITED
Durgapur Lab
Plot No. CA 11
Urvashi Phase-II, Ambedkar Sarani
City Centre, Durgapur-713218

D. Saha
13.01.23

Date : 13/01/2023 02:57:36
PM
User : tech

Date : 13/01/2023 02:59:09
PM
User : tech

Date : 13/01/2023 03:00:29
PM
User : tech

PATIENT RESULT REPORT

SID : REP *P-Study-4*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 02:57:
33 PM
Operator : tech

PATIENT RESULT REPORT

SID : REP *P-Study-3*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 02:59:
07 PM
Operator : tech

PATIENT RESULT REPORT

SID : REP *P-Study-6*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 03:00:
27 PM
Operator : tech

RESULT

Analyser Alarms	Analysis Alarms	SCH, G3
WBC	7.7	$10^3/mm^3$
LYM%	37.5	%
MON%	7.0	%
GRA%	55.5	%
LYM#	2.80	$10^3/mm^3$
MON#	0.50	$10^3/mm^3$
GRA#	4.40	$10^3/mm^3$
RBC	5.92 H	$10^6/mm^3$
HGB	15.6	g/dl
HCT	49.3	%
MCV	83	μm^3
MCH	26.4 L	Dg
MCHC	31.7 L	g/dl
RDW-CV	14.5	%
RDW-SD	43	μm^3
PLT	127 *L	$10^3/mm^3$
MPV	11.0 *H	μm^3
PCT	0.139 *L	%
PDW	14.9 *	%

RESULT

Analyser Alarms	Analysis Alarms	SCH, G3
WBC	7.5	$10^3/mm^3$
LYM%	39.2	%
MON%	7.5	%
GRA%	53.3	%
LYM#	2.90	$10^3/mm^3$
MON#	0.50	$10^3/mm^3$
GRA#	4.10	$10^3/mm^3$
RBC	5.84 H	$10^6/mm^3$
HGB	15.7	g/dl
HCT	48.7	%
MCV	83	μm^3
MCH	26.9 L	Dg
MCHC	32.2	g/dl
RDW-CV	14.1	%
RDW-SD	42	μm^3
PLT	109 *L	$10^3/mm^3$
MPV	11.7 *H	μm^3
PCT	0.127 *L	%
PDW	20.1 *H	%

RESULT

Analyser Alarms	Analysis Alarms	SCH, G3
WBC	7.6	$10^3/mm^3$
LYM%	38.2	%
MON%	6.6	%
GRA%	55.2	%
LYM#	2.90	$10^3/mm^3$
MON#	0.50	$10^3/mm^3$
GRA#	4.20	$10^3/mm^3$
RBC	5.95 H	$10^6/mm^3$
HGB	15.7	g/dl
HCT	49.7	%
MCV	84	μm^3
MCH	26.4 L	Dg
MCHC	31.6 L	g/dl
RDW-CV	14.5	%
RDW-SD	44	μm^3
PLT	127 *L	$10^3/mm^3$
MPV	11.2 *H	μm^3
PCT	0.142 *L	%
PDW	17.1 *	%

RUO Parameters for Research Use Only

RUO Parameters for Research Use Only

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Dr. Debarshi Saha, MD (Path.)
SRL LIMITED
Durgapur Lab
Plot No. CA 11
Urvashi Phase-II, Ambedkar Sarani
City Centre, Durgapur-713216

D. Saha
13.01.23

Date : 13/01/2023 03:01:56
PM
User : tech

PATIENT RESULT REPORT

SID : REP *P. Study-5*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 03:01:
54 PM
Operator : tech

RESULT

Analyser Alarms
Analysis Alarms SCH, G3

WBC	7.6	$10^3/mm^3$
LYM%	38.7	%
MON%	7.5	%
GRA%	53.8	%
LYM#	2.90	$10^3/mm^3$
MON#	0.50	$10^3/mm^3$
GRA#	4.20	$10^3/mm^3$

RBC	5.94 H	$10^6/mm^3$
HGB	15.8	g/dl
HCT	49.6	%
MCV	84	μm^3
MCH	26.6 L	pg
MCHC	31.9	g/dl
RDW-CV	14.3	%
RDW-SD	43	μm^3

PLT	110 \approx L	$10^3/mm^3$
MPV	11.6 \approx H	μm^3
PCT	0.127 \approx L	%
PDW	18.7 \approx H	%

RUO Parameters for
Research Use Only

Date : 13/01/2023 03:03:12
PM
User : tech

PATIENT RESULT REPORT

SID : REP *P. Study-7*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 03:03:
09 PM
Operator : tech

RESULT

Analyser Alarms
Analysis Alarms MIC,
SCH, G3

WBC	7.6	$10^3/mm^3$
LYM%	38.1	%
MON%	6.8	%
GRA%	55.1	%
LYM#	2.80	$10^3/mm^3$
MON#	0.50	$10^3/mm^3$
GRA#	4.30	$10^3/mm^3$

RBC	5.94 H	$10^6/mm^3$
HGB	15.7	g/dl
HCT	49.6	%
MCV	84	μm^3
MCH	26.5 L	pg
MCHC	31.7 L	g/dl
RDW-CV	14.4	%
RDW-SD	43	μm^3

PLT	106 \approx L	$10^3/mm^3$
MPV	9.9 \approx	μm^3
PCT	0.105 \approx L	%
PDW	19.7 \approx H	%

RUO Parameters for
Research Use Only

Date : 13/01/2023 03:04:50
PM
User : tech

PATIENT RESULT REPORT

SID : REP *P. Study-8*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 03:04:
48 PM
Operator : tech

RESULT

Analyser Alarms
Analysis Alarms MIC, G3

WBC	7.4	$10^3/mm^3$
LYM%	37.7	%
MON%	7.4	%
GRA%	54.9	%
LYM#	2.70	$10^3/mm^3$
MON#	0.50	$10^3/mm^3$
GRA#	4.20	$10^3/mm^3$

RBC	5.96 H	$10^6/mm^3$
HGB	15.7	g/dl
HCT	49.7	%
MCV	84	μm^3
MCH	26.4 L	pg
MCHC	31.6 L	g/dl
RDW-CV	14.6	%
RDW-SD	44	μm^3

PLT	126 L	$10^3/mm^3$
MPV	9.2	μm^3
PCT	0.116 L	%
PDW	16.6	%

RUO Parameters for
Research Use Only

Dr. Debarshi Saha, MD (Path.)
SRL LIMITED

Durgapur Lab
Plot No. CA 11
Urvashi Phase-II, Ambedkar Sarani
City Centre, Durgapur-713218

D. Saha
13.01.23

Date : 13/01/2023 03:06:43
PM
User : tech

Date : 13/01/2023 02:49:58
PM
User : tech

PATIENT RESULT REPORT

SID : REP *P. Study-9*
PID :
Name :
Firstname :
Type : Man
Department :
Local :
Complete: 13/01/2023 03:06:
40 PM
Operator : tech

BLANK REPORT

WBC 0.0 $10^3/mm^3$
RBC 0.00 $10^6/mm^3$
HGB 0.0 g/dl
PLT 0 $10^3/mm^3$

RESULT

Analyser Alarms
Analysis Alarms SCH, G3

WBC 7.4 $10^3/mm^3$
LYM% 39.0 %
MON% 7.3 %
GRA% 53.7 %
LYM# 2.80 $10^3/mm^3$
MON# 0.50 $10^3/mm^3$
GRA# 4.10 $10^3/mm^3$

RBC 5.97 H $10^6/mm^3$
HGB 15.7 g/dl
HCT 50.0 %
MCU 84 μm^3
MCH 26.3 L pg
MCHC 31.4 L g/dl
RDW-CU 14.3 %
RDW-SD 43 μm^3

PLT 106 $\approx L$ $10^3/mm^3$
MPV 11.6 $\approx H$ μm^3
PCT 0.122 $\approx L$ %
PDW 18.6 $\approx H$ %

RUD Parameters for
Research Use Only

Dr. Debarshi Saha, MD (Path.)
SRL LIMITED
Durgapur Lab
Plot No. CA 11
Urvashi Phase-II, Ambedkar Sarani
City Centre, Durgapur-713018

Saha
13.01.23

Date : 20/01/2023 06:34:44
PM
User : labtech

QC RESULT REPORT

PID : MX433L
Name : MX438
Complete: 13/01/2023 03:46:
07 PM
Operator : tech

RESULT

Analyser Alarms Analysis Alarms

WBC	2.2	$10^3/mm^3$
LYM%	67.7	%
MON%	6.2	%
GRA%	24.1	%
LYM#	1.40	$10^3/mm^3$
MON#	0.10	$10^3/mm^3$
GRA#	0.70	$10^3/mm^3$
RBC	2.27	$10^6/mm^3$
HGB	5.8	g/dl
HCT	16.4	%
MCV	72	μm^3
MCH	25.7	pg
MCHC	35.7	g/dl
RDW-CV	13.9	%
PLT	92	$10^3/mm^3$
MPV	8.6	μm^3

Date : 13/01/2023 03:46:29
PM
User : labtech

QC RESULT REPORT

PID : MX438N
Name : MX438
Complete: 13/01/2023 03:46:
06 PM
Operator : labtech

RESULT

Analyser Alarms Analysis Alarms

WBC	7.8	$10^3/mm^3$
LYM%	35.3	%
MON%	5.9	%
GRA%	58.8	%
LYM#	2.70	$10^3/mm^3$
MON#	0.40	$10^3/mm^3$
GRA#	4.70	$10^3/mm^3$
RBC	4.77	$10^6/mm^3$
HGB	14.0	g/dl
HCT	38.7	%
MCV	81	μm^3
MCH	29.3	pg
MCHC	36.1	g/dl
RDW-CV	13.5	%
PLT	278	$10^3/mm^3$
MPV	8.5	μm^3

Date : 20/01/2023 06:37:39
PM
User : labtech

QC RESULT REPORT

PID : MX438H
Name : MX438
Complete: 13/01/2023 03:55:
15 PM
Operator : tech

RESULT

Analyser Alarms Analysis Alarms

WBC	21.0	$10^3/mm^3$
LYM%	17.7	%
MON%	4.4	%
GRA%	77.9	%
LYM#	3.70	$10^3/mm^3$
MON#	0.90	$10^3/mm^3$
GRA#	16.40	$10^3/mm^3$
RBC	5.82	$10^6/mm^3$
HGB	19.2	g/dl
HCT	52.4	%
MCV	90	μm^3
MCH	32.9	pg
MCHC	36.6	g/dl
RDW-CV	12.3	%
PLT	562	$10^3/mm^3$
MPV	8.0	μm^3

After
Calibration
QC Value

Date : 20/01/2023 07:25:55
PM
User : labtech

QC RESULT REPORT

PID : MX438L
Name : MX438
Complete: 20/01/2023 09:26:
47 AM
Operator : labtech

RESULT

Analyser Alarms Analysis Alarms

WBC	2.2	$10^3/mm^3$
LYM%	65.4	%
MON%	8.1	%
GRA%	26.5	%
LYM#	1.40	$10^3/mm^3$
MON#	0.10	$10^3/mm^3$
GRA#	0.70	$10^3/mm^3$
RBC	2.25	$10^6/mm^3$
HGB	6.2	g/dl
HCT	16.7	%
MCV	74	μm^3
MCH	27.4	pg
MCHC	36.9	g/dl
RDW-CV	14.1	%

Date : 20/01/2023 07:26:31
PM
User : labtech

QC RESULT REPORT

PID : MX438N
Name : MX438
Complete: 20/01/2023 10:20:
21 AM
Operator : labtech

RESULT

Analyser Alarms Analysis Alarms

WBC	7.5	$10^3/mm^3$
LYM%	35.7	%
MON%	6.0	%
GRA%	58.3	%
LYM#	2.60	$10^3/mm^3$
MON#	0.40	$10^3/mm^3$
GRA#	4.50	$10^3/mm^3$
RBC	4.42	$10^6/mm^3$
HGB	13.3	g/dl
HCT	36.1	%
MCV	82	μm^3
MCH	30.1	pg
MCHC	36.9	g/dl
RDW-CV	13.5	%

QC Value on 20.01.23

Dr. Debarshi Saha, MD (Path.)
SRL LIMITED
Durgapur Lab
Plot No. CA 11
Urvashi Phase-II, Ambecker Sarani
City Centre, Durgapur-713218