



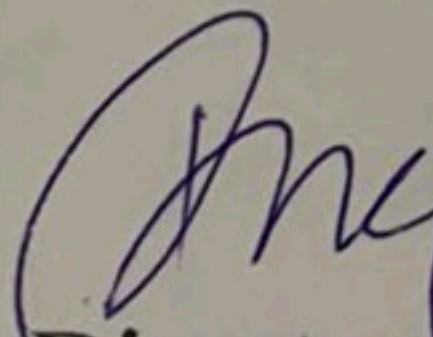
HD Global Biosciences


CALIBRATION CERTIFICATE

This is to certify that Mindray Auto Hematology Analyser Model: BC-2800 Blood Cell Counter 3-Part Differential, Sr.No: RP - 64117145 has been Calibrated on 18th April 2022 by Mindray CBC-CAL PLUS HAEMATOLOGY CALIBRATOR LOT NO. PLUS0229 EXPIRY DATE 5th June 2022 at Genesis Laboratory, 240 Mohan Maekin Society, Sector - 5, Vasundhara, Ghaziabad - 201 012 (Uttar Pradesh).

Next Calibration Due on: April 18, 2023

For HD Global Biosciences


Director





HD Global Biosciences

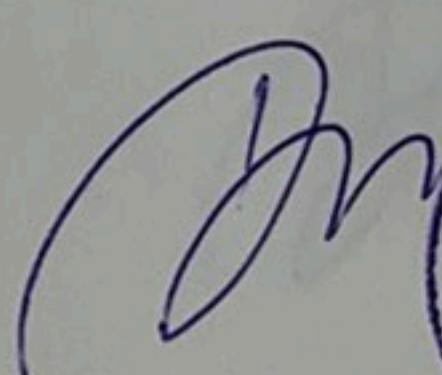
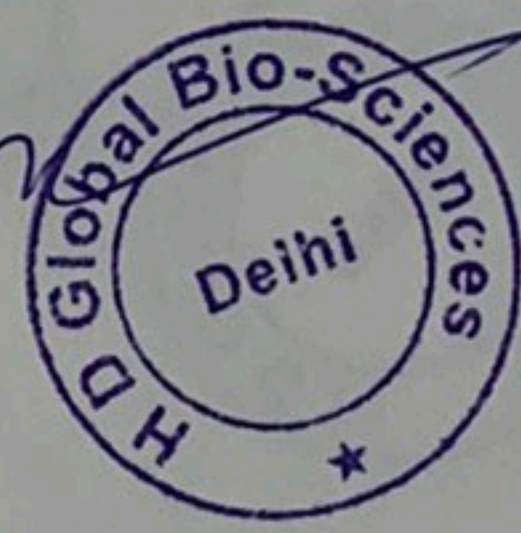
CUSTOMER NAME: GENESIS LABORATORY
ADDRESS: 240, MOHAN MAEKIN SOCIETY, SECTOR-5, VASUNDHARA

PLACE: GHAZIABAD - 201 012 (UTTAR PRADESH)
MODEL NAME: MINDRAY BC 2800
SERIAL NUMBER: RP-64117145

CALIBRATION IN LAB STORE CALIBRATION

OLD CALIBRATION FACTOR

PARAMETERS	FACTOR
WBC	100.00%
RBC	94.00%
HGB	100.00%
MCV	100.00%
PLT	100.00%

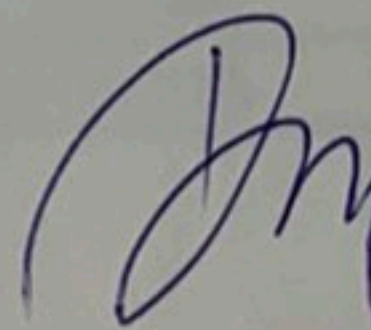



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MODEL NAME: MINDRAY BC 2800
SERIAL NUMBER: RP-64117145

CALIBRATOR VALUES BEFORE CALIBRATION (RUN AS A SAMPLE)

PARAMETERS	VALUES
WBC	8.0
HGB	13.0
RBC	4.04
HCT	36.2
MCV	89.7
MCH	32.1
MCHC	35.9
PLT	190
MPV	9.2



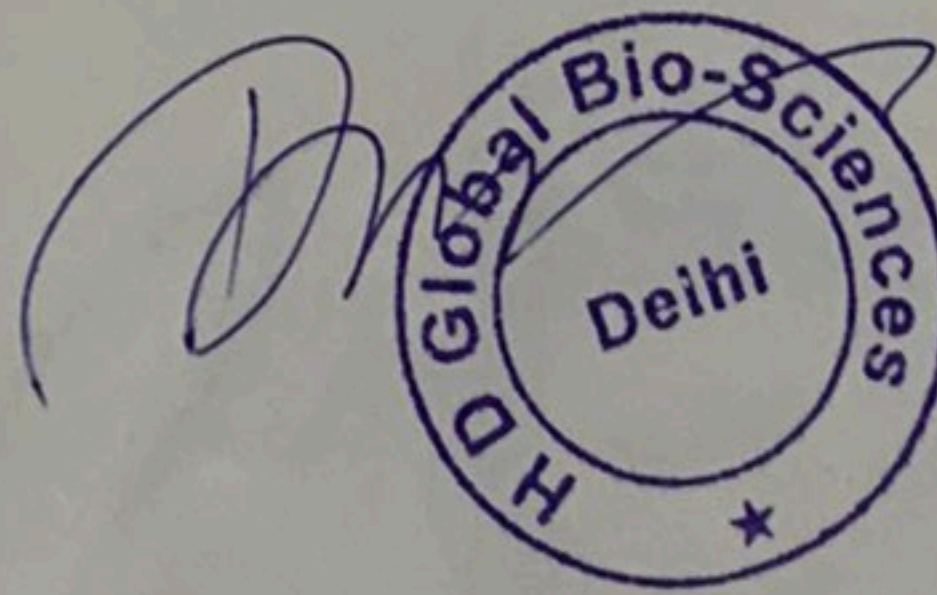
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ADDRESS: 240, MOHAN MAEKIN SOCIETY, SECTOR-5, VASUNDHARA
PLACE: GHAZIABAD - 201 012 (UTTAR PRADESH)
MODEL NAME: MINDRAY BC 2800
SERIAL NUMBER: RP-64117145

MODE : WHOLE BLOOD
CALIBRATOR : MINDRAY CBC-CAL PLUS
CALIBRATOR LOT NO: PLUS0229
CALIBRATOR EXPIRY DATE : 2022-06-05
CALIBRATION DONE : 2022-04-18
NEXT CALIBRATION DUE ON: 2023-04-18

NEW CALIBRATION FACTOR

PARAMETERS	FACTOR
WBC	107.50%
RBC	102.10%
HGB	103.70%
MCV	98.20%
PLT	114.10%





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SERIAL NUMBER: RP-64117145

MODE : WHOLE BLOOD
CALIBRATOR : MINDRAY CBC-CAL PLUS
CALIBRATOR LOT NO: PLUS0229
CALIBRATOR EXPIRY DATE : 2022-06-05
CALIBRATION DONE : 2022-04-18
NEXT CALIBRATION DUE ON: 2023-04-18

CALIBRATOR VALUES AFTER CALIBRATION (RUN AS A SAMPLE)

PARAMETERS	VALUES
WBC	9.5
HGB	14.0
RBC	4.67
HCT	41.0
MCV	87.9
MCH	29.9
MCHC	34.1
PLT	248.0
MPV	9.3






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MODEL NAME: MINDRAY BC 2800
SERIAL NUMBER: RP-64117145

REPRODUCIBILITY IN A SAMPLE

	1	2	3	MEAN	CV %	SD
WBC	6.7	6.8	6.8	6.77	0.85323	0.05774
RBC	4.18	4.15	4.21	4.18	0.71770	0.03000
HGB	14.0	14.0	14.1	14.03	0.41141	0.05774
HCT	44.6	44.3	44.9	44.60	0.67265	0.30000
MCV	106.9	106.8	106.7	106.80	0.09363	0.10000
PLT	175.0	177.0	176.0	176.00	0.56818	1.00000




Background

ID: 7
Time: 04-18-2022 11:18

WBC	0.0 x 10 ³ /uL	L
Lymph#	... x 10 ³ /uL	
Mid#	... x 10 ³ /uL	
Gran#	... x 10 ³ /uL	
Lymph%	...	
Mid%	...	
Gran%	...	
HGB	0.0 g/dL	L
RBC	0.00 x 10 ⁶ /uL	L
HCT	0.0 %	L
MCV	... fL	L
MCH	... pg	
MCHC	... g/dL	
RDW-CV	... %	
RDW-SD	... fL	
PLT	0 x 10 ³ /uL	L
MPV	... fL	
PDW	...	
PCT	... %	

One Sample 1st

ID: 8
Time: 04-18-2022 11:22

WBC	6.3 x 10 ³ /uL	
Lymph#	2.2 x 10 ³ /uL	
Mid#	0.4 x 10 ³ /uL	
Gran#	3.7 x 10 ³ /uL	
Lymph%	34.6 %	
Mid%	7.2 %	
Gran%	58.2 %	
HGB	13.5 g/dL	
RBC	3.82 x 10 ⁶ /uL	
HCT	41.2 %	
MCV	107.9 fL	H
MCH	35.3 pg	H
MCHC	32.7 g/dL	
RDW-CV	17.1 %	H
RDW-SD	63.9 fL	H
PLT	149 x 10 ³ /uL	L
MPV	10.5 fL	
PDW	15.0	
PCT	0.156 %	

2nd Sample

ID: 9
Time: 04-18-2022 11:24

WBC	6.1 x 10 ³ /uL	
Lymph#	2.0 x 10 ³ /uL	
Mid#	0.5 x 10 ³ /uL	
Gran#	3.6 x 10 ³ /uL	
Lymph%	32.1 %	
Mid%	9.4 %	
Gran%	58.5 %	
HGB	13.4 g/dL	
RBC	3.82 x 10 ⁶ /uL	
HCT	41.2 %	
MCV	108.0 fL	H
MCH	35.0 pg	H
MCHC	32.5 g/dL	
RDW-CV	17.7 %	H
RDW-SD	68.0 fL	H
PLT	149 x 10 ³ /uL	L
MPV	10.9 fL	
PDW	15.1	
PCT	0.162 %	

3rd Sample

ID: 10
Time: 04-18-2022 11:26

WBC	6.0 x 10 ³ /uL	
Lymph#	2.1 x 10 ³ /uL	
Mid#	0.5 x 10 ³ /uL	
Gran#	3.4 x 10 ³ /uL	
Lymph%	34.6 %	
Mid%	8.0 %	
Gran%	57.4 %	
HGB	13.4 g/dL	
RBC	3.80 x 10 ⁶ /uL	
HCT	41.1 %	
MCV	108.4 fL	H
MCH	35.2 pg	H
MCHC	32.6 g/dL	
RDW-CV	17.0 %	H
RDW-SD	64.9 fL	H
PLT	149 x 10 ³ /uL	L
MPV	10.9 fL	
PDW	15.1	
PCT	0.162 %	

Control Run

ID: 11
Time: 04-18-2022 11:37

WBC	3.7 x 10 ³ /uL	L
Lymph#	0.8 x 10 ³ /uL	
Mid#	0.3 x 10 ³ /uL	
Gran#	2.6 x 10 ³ /uL	
Lymph%	21.3 %	
Mid%	7.9 %	
Gran%	70.8 %	H
HGB	6.3 g/dL	L
RBC	2.27 x 10 ⁶ /uL	L
HCT	18.6 %	L
MCV	82.0 fL	
MCH	27.7 pg	
MCHC	33.8 g/dL	
RDW-CV	15.5 %	
RDW-SD	44.7 fL	
PLT	122 x 10 ³ /uL	L
MPV	10.2 fL	
PDW	14.1	
PCT	0.124 %	

Control Run

ID: 12
Time: 04-18-2022 11:41

WBC	3.4 x 10 ³ /uL	L
Lymph#	0.7 x 10 ³ /uL	L
Mid#	0.2 x 10 ³ /uL	
Gran#	2.5 x 10 ³ /uL	
Lymph%	19.3 %	L
Mid%	7.1 %	
Gran%	73.6 %	H
HGB	6.3 g/dL	L
RBC	2.23 x 10 ⁶ /uL	L
HCT	18.1 %	L
MCV	81.4 fL	
MCH	28.2 pg	
MCHC	34.8 g/dL	
RDW-CV	15.2 %	
RDW-SD	42.6 fL	
PLT	111 x 10 ³ /uL	L
MPV	10.0 fL	
PDW	14.2	
PCT	0.111 %	

Old Calibrator

WB calibration factor

Print Time: 04-18-2022 11:43

Para	Factor	Time
WBC	100.0%	04-27-2016
RBC	94.0%	04-03-2021
HGB	100.0%	04-27-2016
MCV	100.0%	04-27-2016
PLT	100.0%	04-16-2019

Predilute Cal. Factor

Print Time: 04-18-2022 11:43

Para	Factor	Time
WBC	100.0%	04-27-2016
RBC	100.0%	04-27-2016
HGB	100.0%	04-27-2016
MCV	100.0%	04-27-2016
PLT	100.0%	04-27-2016

Calibrator Run Sample

ID: 13
Time: 04-18-2022 11:46

WBC	8.0 x 10 ³ /uL
Lymph#	2.2 x 10 ³ /uL
Mid#	0.4 x 10 ³ /uL
Gran#	5.4 x 10 ³ /uL
Lymph%	27.1 %
Mid%	5.4 %
Gran%	67.5 %
HGB	13.0 g/dL
RBC	4.04 x 10 ⁶ /uL
HCT	36.2 %
MCV	89.7 fL
MCH	32.1 pg
MCHC	35.9 g/dL
RDW-CV	14.5 %
RDW-SD	43.6 fL
PLT	190 x 10 ³ /uL
MPV	9.2 fL
PDW	15.3
PCT	0.174 %

Before Calibration

Calibration as Sample

ID: 15
Time: 04-18-2022 12:58

WBC	9.5 x 10 ³ /uL
Lymph#	2.6 x 10 ³ /uL
Mid#	0.6 x 10 ³ /uL
Gran#	6.4 x 10 ³ /uL
Lymph%	27.2 %
Mid%	5.4 %
Gran%	67.4 %
HGB	14.0 g/dL
RBC	4.67 x 10 ⁶ /uL
HCT	41.0 %
MCV	87.9 fL
MCH	29.9 pg
MCHC	34.1 g/dL
RDW-CV	14.5 %
RDW-SD	42.8 fL
PLT	248 x 10 ³ /uL
MPV	9.3 fL
PDW	15.4
PCT	0.230 %

After Calibration

Control Run

ID: 18
Time: 04-18-2022 13:08

WBC	3.9 x 10 ³ /uL	L
Lymph#	0.7 x 10 ³ /uL	L
Mid#	0.3 x 10 ³ /uL	
Gran#	2.9 x 10 ³ /uL	
Lymph%	19.0 %	L
Mid%	7.4 %	
Gran%	73.6 %	H
HGB	6.7 g/dL	L
RBC	2.51 x 10 ⁶ /uL	L
HCT	26.1 %	L
MCV	80.4 fL	
MCH	26.6 pg	L
MCHC	33.3 g/dL	
RDW-CV	15.5 %	
RDW-SD	42.8 fL	
PLT	139 x 10 ³ /uL	L
MPV	10.2 fL	
PDW	14.3	
PCT	0.1 %	

Sample Run

ID: 19
Time: 04-18-2022 13:12

WBC	6.7 x 10 ³ /uL	
Lymph#	2.3 x 10 ³ /uL	
Mid#	0.6 x 10 ³ /uL	
Gran#	3.8 x 10 ³ /uL	
Lymph%	34.3 %	
Mid%	9.2 %	
Gran%	56.5 %	
HGB	14.0 g/dL	
RBC	4.18 x 10 ⁶ /uL	
HCT	44.6 %	H
MCV	106.9 fL	H
MCH	33.4 pg	L
MCHC	31.3 g/dL	H
RDW-CV	17.7 %	H
RDW-SD	65.8 fL	H
PLT	175 x 10 ³ /uL	
MPV	10.9 fL	
PDW	15.0	
PCT	0.190 %	

Sample Run

ID: 20
Time: 04-18-2022 13:14

WBC	6.8 x 10 ³ /uL	
Lymph#	2.3 x 10 ³ /uL	
Mid#	0.7 x 10 ³ /uL	
Gran#	3.8 x 10 ³ /uL	
Lymph%	33.7 %	
Mid%	9.9 %	
Gran%	56.4 %	
HGB	14.0 g/dL	
RBC	4.15 x 10 ⁶ /uL	
HCT	44.3 %	H
MCV	106.8 fL	H
MCH	33.7 pg	L
MCHC	31.6 g/dL	H
RDW-CV	17.0 %	H
RDW-SD	66.8 fL	
PLT	177 x 10 ³ /uL	
MPV	10.7 fL	
PDW	15.2	
PCT	0.189 %	

New Calibrator factors

WB calibration factor

Print Time: 04-18-2022 13:17

Para	Factor	Time
WBC	107.5%	04-18-2022
RBC	102.1%	04-18-2022
HGB	103.7%	04-18-2022
MCV	93.2%	04-18-2022
PLT	114.1%	04-18-2022

Predilute Cal. Factor

Print Time: 04-18-2022 13:17

Para	Factor	Time
WBC	100.0%	04-27-2016
RBC	100.0%	04-27-2016
HGB	100.0%	04-27-2016
MCV	100.0%	04-27-2016
PLT	100.0%	04-27-2016

Sample Run

ID: 21

Time: 04-18-2022 13:17

WBC	6.8	$\times 10^3/\mu\text{L}$	
Lym ^W n#	2.3	$\times 10^3/\mu\text{L}$	
Mid ^W	0.7	$\times 10^3/\mu\text{L}$	
Gran#	3.8	$\times 10^3/\mu\text{L}$	
Lymph%	34.4	%	
Mid%	9.9	%	
Gran%	58.0	%	
HGB	14.1	g/dL	
RBC	4.21	$\times 10^6/\mu\text{L}$	
HCT	44.9	%	
MCV	106.7	fL	H
MCH	33.4	pg	
MCHC	31.4	g/dL	L
RDW-CV	17.0	%	H
RDW-SD	64.7	fL	H
PLT	176	$\times 10^3/\mu\text{L}$	
MPV	10.6	fL	
PDW	15.0		
PCT	0.186	%	