



Date:
Effective Date:

Certificate of Calibration

Customer Name: Aakash Hospital

Model : Automated Hematology Analyzer H560

Serial No. : K11041910022

Calibration Done Date: 4.8.23

Next Calibration Due Date On or Before: 04/08/2024

Lab In-charge: . Dr Meena Metre

This is to certify that the above-mentioned product has been verified of calibration for CBC 5 parameters (WBC, RBC, HGB, MCV and PLT) according to the standard procedures provided by Erba Lachema s.r.o, Karasek.

Calibration at site performed by
Vineet Kumar Rai
Sr.Service Engineer
Transasia Bio-Medicals Ltd
Delhi

Encl:

1. Certificate of Inspection
2. Assay Sheet of Hematology Calibrator (H Cal)
3. Printouts
4. Traceability Document



5. BACKGROUND CHECK

PARAMETER	RESULT	Range
WBC	0.3	0.3×10^3 /UI or Less
RBC	0.00	0.02×10^6 /uL or Less
HGB	0.0	0.1 g/dL or Less
PLT	3	10×10^3 /uL or Less

Vineet K. K.
Technical Service Department
Transasia Bio-Medicals Ltd

History

Cal. Operator : admin

Cal. Method : Calibrator

Cal. Mode : Whole Blood

Cal. Time : 08-04-2023 11:39:05

Description : PLUS0723(Lot No.), 2023/08/10(Exp. Date)

Print Time : 12-26-2023 17:59:03

Details

Para.	WBC	RBC	HGB	MCV	PLT
Target	9.12	4.64	13.5	90.5	266
√1	8.36	4.52	13.0	90.5	235
√2	8.51	4.57	13.1	90.6	235
√3	8.63	4.55	13.1	90.8	241
√4	8.67	4.49	13.1	90.7	228
√5	8.32	4.52	13.1	90.7	239
√6	8.33	4.53	13.0	90.6	239
√7	8.44	4.49	13.0	90.7	237
√8	8.45	4.56	13.2	90.3	245
√9	8.60	4.54	13.2	90.6	241
√10	8.56	4.56	13.1	90.5	241
New Cal. Coefficient (%)	107.46	102.36	103.13	99.89	111.72
Original Cal. Coefficient (%)	103.37	100.00	106.00	100.00	102.89



6. PRECISION STUDY PERFORMED ON THE ANALYSER USING A BLOOD SAMPLE (ORIGINALS ATTACHED)

SMP NO	WBC	RBC	HGB	MCV	PLT
1	8.5	5.26	14.8	81.8	226
2	7.89	5.14	14.5	81.9	227
3	7.84	5.11	14.4	82	229
4	7.94	5.13	14.4	82	222
5	7.88	5.15	14.4	81.9	213
6	8.26	5.2	14.5	81.8	229
7	7.92	5.24	14.6	82	227
8	8.15	5.22	14.5	82	218
9	7.79	5.19	14.4	82.4	233
10	7.76	5.19	14.4	81.8	225
Mean	7.99	5.18	14.49	81.96	224.90
SD	0.24	0.05	0.13	0.18	5.84
CV%	2.96	0.95	0.89	0.22	2.60
Acceptable CV%	Within 3.5%	Within 2.0%	Within 1.5%	Within 2.0%	Within 6.0%
Result	PASS	PASS	PASS	PASS	PASS

Vineet K. Ra
Technical Service Department
Transasia Bio Medicals Ltd

Hematology Analysis Report

First Name:
Last Name:
Gender:
Diagnosis:

Sample Type:
Department:
Patient ID:

Sample ID: PRE 1
Run Time: 08-04-2023 11:41
Age:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	8.50	4.00-11.00	10 ³ /uL				
2 RBC	5.26	4.50-5.50	10 ⁶ /uL				
3 HGB	14.8	11.5-17.5	g/dL				
4 HCT	43.0	38.0-50.0	%				
5 MCV	81.8	↓ 82.0-101.0	fL				
6 MCH	28.1	27.0-34.0	pg				
7 MCHC	34.4	31.6-35.4	g/dL				
8 RDW-CV	12.9	11.0-16.0	%				
9 RDW-SD	43.5	35.0-56.0	fL				
10 PLT	226	? 125-450	10 ³ /uL				
11 MPV	11.2	? 6.5-12.0	fL				
12 PDW-SD	17.8	?↑ 9.0-17.0	fL				
13 PDW-CV	17.9	? 10.0-17.9	%				
14 PCT	0.252	? 0.108-0.282	%				
15 P-LCR	45.7	?↑ 11.0-45.0	%				
16 P-LCC	103	?↑ 30-90	10 ³ /uL				

Sample Type:
Microscopic Description:

Exam. Time:

Submitter: Operator: admin Approver:
Sampling Time: 08-04-2023 11:41 Delivery Time: 08-04-2023 11:41 Validated Time:
Report Time: 12-26-2023 18:11 Remarks:

The Report is responsible for this sample only. If you have any questions, please contact us in 24 hours.

Hematology Analysis Report

First Name:
 Last Name:
 Gender:
 Diagnosis:

Sample Type:
 Department:
 Patient ID:

Sample ID: PRE 4
 Run Time: 08-04-2023 11:44
 Age:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	7.94	4.00-11.00	10 ³ /uL				
2 RBC	5.13	4.50-5.50	10 ⁶ /uL				
3 HGB	14.4	11.5-17.5	g/dL				
4 HCT	42.1	38.0-50.0	%				
5 MCV	82.0	82.0-101.0	fL				
6 MCH	28.1	27.0-34.0	pg				
7 MCHC	34.3	31.6-35.4	g/dL				
8 RDW-CV	12.8	11.0-16.0	%				
9 RDW-SD	43.1	35.0-56.0	fL				
10 PLT	222	? 125-450	10 ³ /uL				
11 MPV	11.3	? 6.5-12.0	fL				
12 PDW-SD	17.0	? 9.0-17.0	fL				
13 PDW-CV	16.9	? 10.0-17.9	%				
14 PCT	0.251	? 0.108-0.282	%				
15 P-LCR	47.2	?↑ 11.0-45.0	%				
16 P-LCC	105	?↑ 30-90	10 ³ /uL				

Sample Type:
 Microscopic Description:

Exam. Time:

Submitter: Operator: admin Approver:
 Sampling Time: 08-04-2023 11:44 Delivery Time: 08-04-2023 11:44 Validated Time:
 Report Time: 12-26-2023 18:08 Remarks:

Hematology Analysis Report

First Name:
Last Name:
Gender:
Diagnosis:

Sample Type:
Department:
Patient ID:

Sample ID: PRE 9
Run Time: 08-04-2023 11:49
Age:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	7.79	4.00-11.00	10 ³ /uL				
2 RBC	5.19	4.50-5.50	10 ⁶ /uL				
3 HGB	14.4	11.5-17.5	g/dL				
4 HCT	42.8	38.0-50.0	%				
5 MCV	82.4	82.0-101.0	fL				
6 MCH	27.7	27.0-34.0	pg				
7 MCHC	33.6	31.6-35.4	g/dL				
8 RDW-CV	12.8	11.0-16.0	%				
9 RDW-SD	43.3	35.0-56.0	fL				
10 PLT	233	? 125-450	10 ³ /uL				
11 MPV	11.6	? 6.5-12.0	fL				
12 PDW-SD	17.6	?↑ 9.0-17.0	fL				
13 PDW-CV	17.3	? 10.0-17.9	%				
14 PCT	0.271	? 0.108-0.282	%				
15 P-LCR	48.1	?↑ 11.0-45.0	%				
16 P-LCC	112	?↑ 30-90	10 ³ /uL				

Sample Type:
Microscopic Description:

Exam. Time:

Submitter: Operator: admin Approver:
Sampling Time: 08-04-2023 11:49 Delivery Time: 08-04-2023 11:49 Validated Time:
Report Time: 12-26-2023 18:08 Remarks:

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Hematology Analysis Report

First Name:
Last Name:
Gender:
Diagnosis:

Sample Type:
Department:
Patient ID:

Sample ID: PRE10
Run Time: 08-04-2023 11:50
Age:

Parameter	Result	Ref. Range	Unit	Parameter	Result	Ref. Range	Unit
1 WBC	7.76	4.00-11.00	10 ³ /uL				
2 RBC	5.19	4.50-5.50	10 ⁶ /uL				
3 HGB	14.4	11.5-17.5	g/dL				
4 HCT	42.4	38.0-50.0	%				
5 MCV	81.8	↓ 82.0-101.0	fL				
6 MCH	27.7	27.0-34.0	pg				
7 MCHC	33.8	31.6-35.4	g/dL				
8 RDW-CV	12.6	11.0-16.0	%				
9 RDW-SD	42.5	35.0-56.0	fL				
10 PLT	225	? 125-450	10 ³ /uL				
11 MPV	11.3	? 6.5-12.0	fL				
12 PDW-SD	16.8	? 9.0-17.0	fL				
13 PDW-CV	16.8	? 10.0-17.9	%				
14 PCT	0.255	? 0.108-0.282	%				
15 P-LCR	47.0	?↑ 11.0-45.0	%				
16 P-LCC	106	?↑ 30-90	10 ³ /uL				

Sample Type:
Microscopic Description:

Exam. Time:

Submitter:

Operator: admin

Approver:

Sampling Time: 08-04-2023 11:50

Delivery Time: 08-04-2023 11:50

Validated Time:

Report Time: 12-26-2023 18:08

Remarks:

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