

Transasia Bio-Medicals Ltd. Transasia House, 8 Chandivali Studio Road Andheri (East) Mumbai - 400 072 Tel. +91 22 4030 9000 Fax: +91 22 2857 3030 Email: transasia@transasia.co in CIN: U33110MH1985PLC036198



Date:
Effective Date:

08/05/2021 08/05/2021

Certificate of Calibration

Customer Name: Dr. B Lal Laboratory, Alwar.

Model: Automated Hematology Analyzer Elite 580

Serial No. :K1105190301

Calibration Done Date: 8.5.21

Next Calibration Due Date On or Before: 07/05/2022

Lab In-charge: . Dr. Saroj Gupta

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 Engineer Name :- Manish Kumar Saini Designation :- Service Engineer Transasia Bio-Medicals Ltd Alwar.

Encl:

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









Date: 08/05/2021 Effective Date: 08/05/2021

Certificate of Inspection

1. Model: Automated Hematology Analyzer Elite 580

2. Serial No.: K11051903014

3. Calibration Date: 08/05/2021

4. Material used: H Cal (Lot No. PLUS0421, Expiry date: 10-May-2021)

By comparing your data to the results of the standard counters in Erba Lachema, the calibration for CBC 5 parameters using the measurement standard material (H Cal) was completed. The calibration result of 5 runs is summarized in the following table. Please refer to the attached sheets for the details.







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5. BACKGROUND CHECK

PARAMETER	RESULT	Panas
WBC	0.0	Range 0.3 x 10 ³ /UI or Less
RBC	0.00	
HGB	0.0	0.02 x 10 ⁶ /uL or Less
PLT	0	0.1 g/dL or Less
		$10 \times 10^3 / \text{uL or Less}$

Technical Service Department Transasia Bio-Medicals Ltd





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6. PRECISION STUDY PERFORMED ON THE ANALYSER USING A BLOOD S ATTACHED)

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UN	MA	TCH	ED	SEI	RVIC	
	SIL	NCE	19	79.		

		1 700	PASS	PASS	PASS
Result	PASS	PASS		Within 2.0%	Within 6.0%
cceptable CV%	Within 3.5%	Within 2.0%	Within 1.5%	VACH : 0.00	
			0142	0.22	0.71
CV%	0.88	0.88	0.42		2.21
SD	0.05	0.04	0.05	0.18	311.00
Mean	5.90	4.48	12.24	84.03	310
T-10	5.98	4.5	12.3	83.8	
T-9	5.95	4.43	12.2	84.3	309
T-8	5.9	4.46	12.3	83.9	310
	5.95	4.45	12.2	83.7	315
T-7	5.85	4.49	12.3	84.1	310
T-6	5.8	4.4	12.2	84.1	312
T-5	5.9	4.49	12.2	84.1	314
T-4	5.88	4.51	12.2	84.2	312
T-3	5.89	4.52	12.3	84.1	310
T-2	5.9	4.51	12.2	84	308
T-1		RBC	HGB	MCV	PLT
SMP NO	WBC				





History

	Service			
Cal. Operator	engineer	Cal	Method	Calibrator
	Whole Blood-			
Cal Mode	Factory	Cal	Date	2021/05/08
Description	PLUS0421(Lot No.) 2021/05/08 (Exp. Date)			
	2021/05/10			

Details					4	e 7
Para.	WBC	RBC	HGB	MCV	PLT	MPV
Target	9.13	4.47	13 7	89.6	254	
1	9.14	4.49	13 7	919	247	
2	9.07	4.45	13.5	918	258	
3	9.39	4.46	13.7	91.9	256	
4	9 15	4.48	13.6	91.9	256	
5	9 14	4.51	13.7	91.5	261	
6	9.43	4.55	13.6	918	266	
7	9.06	4.53	13.6	92.1	244	,
8	9.2	4.52	13.7	91.7	239	,
9	9.49	4.5	13.6	91.4	236	1
10	9.28	4.51	13.8	917	244	
11	9.13	4.51	13.7	91.6	242	
12	9.28	4.42	13.7	91.8	249	
New CBC+ DIFF Cal. Coefficient (%)	98.81	99.38	100.15	97.69	104 83	
Original CBC+DIFF Cal. Coefficient (%)	106.45	97.75	102.86	102.3	100 08	100 00
New Transfer Coefficient	1.0021	1.0017	1.0036	0.9991	0.9417	1
Original Transfer Coefficient	1.0195	1.0143	1.0086	0.9977	0 9450	1.0000



PRECISION HISTORY

		PASS	PASS	PASS	PASS
Result	PASS	2.0%	1.5%	2.0%	6.0%
CV%	Within 3.5%	Within	Within	Within	Within
Acceptable	0.88	0.88	0.42	0.22	0.71
CV%	0.05	0.04	0.05	0.18	2.21
SD	5.9	4.48	12.24	84.03	311
Mean	5.98	4.5	12.3	83.8	310
T-10	5.95	0.43	12.2	84.3	309
T-9		4.46	12.3	83.9	310
T-8	5.95	4.45	12.2	83.7	315
T-7	5.95	4.49	12.3	84.1	310
T-6	5.85			84.1	312
T-5	5.8	4.4	12.2		314
T-4	5.9	4.49	12.2	84.1	
T-3	5.88	4.51	12.2	84.2	312
T-2	5.89	4.52	12.3	84.1	310
T-1	5.9	4.51	12.2	84	308
SMP NO	WBC	RBC	HGB	MCV	PLT



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TRACEABILITY

Erba Lachema s.r.o., Karásek 1d, 621 00 Brno hereby certifies the traceability of the assigned values of the product listed below to a reference material.

Assignment of Reference Values to Fresh Whole Blood

Hematology Calibrator values are traceable to standard reference methods.

Hematology analyzers in the Quality Assurance Laboratory of the Supplier are whole blood calibrated to values obtained using the following standard reference methods. Whole blood samples drawn from normal, healthy donors are collected in EDTA anticoagulant and analyzed within six hours of collection.

The White Blood Cell (WBC) and Red Blood Cell (RBC) are analyzed on a Coulter Counter Z series instrument. All counts are corrected for coincidence.

Hemoglobin is measured using the Clinical Laboratory Standards Institute (CLSI) recommended reagent for the hemoglobincyanide (cyanmethemoglobin) method⁽¹⁾. Readings are made at 540 nm in a colorimeter/spectrophotometer calibrated according to CLSI H15-A3 and ICSH recommendations ⁽¹⁾.

The hematocrit (packed cell volume) is measured using plain glass microhematocrit tubes (not coated with anticoagulant) centrifuged for 5 minutes in a microhematocrit centrifuge according to the CLSI H7-A3 document (2). No correction is made for trapped plasma.

Platelets are assayed using a hemocytometer and phase contrast optics.

Determination of uncertainty

Uncertainty is an estimate of the range in which the true value of a reported result may occur.

The uncertainty associated with the calibration of the H360, H560 and ELite 580 analyzer using the ELite H CAL calibrator has been estimated by adding the following sources of uncertainty:

- Uncertainty of the equipment used to determine the reference values: flask, pipette, single aperture impedance counter (WBC, RBC), Hemocytometer by phase-contrast (PLT), spectrophotometer (HGB), and ruler (HCT).
- Uncertainty of the hematology analyzer when calibrating with the ELite H CAL.

