Transasia Bio-Medicals Ltd., No. 43, Castle Street, Richmond Road, Opp. Empire Suitess, Asholnagar Bengaluru - 560025

Tel: 080 4430 9000 / 2556 8044 Email : sz2@transasia.co.in CIN : U33110MH1985PLC036198





Date:

Effective Date:

Certificate of Calibration

HO: Transasia House, 8 Chandivali Studio Road, Andheri (E), Mumbai - 400 072 Tel: +91 22 4030 9000 Fax: +91 22 2857 3030

Customer Name:

Chinmayi Hospital

Model: Automated Hematology Analyzer H560

Serial No. K11041936058

Calibration Done Date: 2.2.23

Next Calibration Due Date On or Before: 01-02-2024

Lab In-charge: . Pradeep Kumar

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.

alibration at site pe

Calibration at site performed by

Engineer Name: - SANJAY UNNIKRISHNAN P K

Designation:- SERVICE ENGINEER

Transasia Bio-Medicals Ltd

Location:- UDUPI

Encl:

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

ABORATORY ASPITAL

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(Erba®



6. PRECISION STUDY PERFORMED ON THE ANALYSER USING A BLOOD (ORIGINALS ATTACHED) UNMATCHED SERVICE SINCE 1979...

Result	PASS	PASS	PASS	PASS	PASS
Acceptable CV%	Within 3.5%	Within 2.0%	Within 1.5%	Within 2.0%	Within 6.0%
				V.11	0.50
CV%	1.02	0.38	0.47	0.11	0.98
SD	0.10	0.02	0.07	0.09	3.13
Mean	9.59	5.08	15.59	84.67	318.40
S10	9.67	5.11	15.6	84.6	317
S9	9.52	5.1	15.7	84.7	316
S8	9.65	5.07	15.5	84.7	315
S7	9.69	5.06	15.5	84.6	314
S6	9.59	5.06	15.6	84.5	319
S5	9.73	5.07	15.6	84.7	-323
S4	9.53	5.08	15.6	84.8	323
S3	9.6	5.06	15.5	84.7	320
S2	9.52	5.06	15.6	84.8	317
S1	9.41	5.1	15.7	84.6	320
SMP NO	WBC	RBC	HGB	MCV	PLT

Technical Service Department Transasia Bio Medicals Ltd

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5. BACKGROUND CHECK

PARAMETER	RESULT	Range	
WBC	0.2	0.3 x 10 ³ /Ul or Less	
RBC	0.00	0.02 x 10 ⁶ /uL or Less	
HGB	0.0	0.1 g/dL or Less	
PLT	0	$10 \times 10^3 / \text{uL or Less}$	







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Date: Effective Date:

Certificate of Inspection

1. Model: Automated Hematology Analyzer H560

2. Serial No .:

K11041936058

3. Calibration Date:

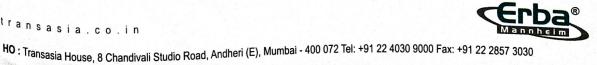
02-02-2023

H Cal (Lot No. PLUS1223, Expiry date: 10-feb-2023) 4. Material used:

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.

Transasia Bio-Medicals Ltd







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

<u>Hematology Calibrator</u> 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.



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	Reference	WBC (10 ⁹ /L)	RBC (10 ¹² /L)	HGB (g/L)	MCV (fL)	PLT (10 ⁹ /L)
H360	Calibrator	9.23	4.90	137	88.5	249
	Relative expansion Uncertainty %	2.2	0.1	0.3	0.5	4.4
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualified
H560 (SW A12.2 or higher; version A only)	Calibrator	8.96	4.62	134	88.4	256
	Relative expansion Uncertainty %	2.4	0.2	0.6	0.3	4.1
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualified
H560 (SW B1.0 or higher)	Calibrator	9.18	4.56	133	85.4	262
	Relative expansion Uncertainty %	2.3	0.6	0.5	0.4	4.2
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualified
ELite 580 (SW A10.4 or higher)	Calibrator	9.20	4.52	135	85.3	250
	Relative expansion Uncertainty %	2.1	0.5	0.4	0.2	4.3
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualifie

The reported expanded uncertainty in Table 1 is based on a standard uncertainty multiplied by a coverage factor of k=2 providing a level of confidence of approximately 95%.

Technical Product Management

Erba Lachema s.r.o.

Brno 03.01.2023



Erba Lachema s.r.o., Karásek 2219/1d, 621 00 Brno, Czech Republic Identification number: 269 18 846. Tax identification number: CZ26918846 Incorporated in the Commercial Register mantained by the Regional Court in Brno, Section C, insert 45458. Tel: +420 517 077 111. e-mail: diagnostics@erbamannheim.com. www.erbalachema.com