



Customer Name: SUNSHINE LAB & DIAGNOSTICS

Model : Automated Hematology Analyzer H560

Serial No. : K11042109048

Calibration Done Date: 21/01/2022

Next Calibration Due
Date On or Before: 20/01/2023

Lab In-charge: . MR. ABHINAV KUMAR THAKUR

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

Krishna
22/01/2022
krishna Kumar
Sr. Service Engineer
Transasia Bio-Medicals Ltd

Encl:

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



Date: 21/1/2022
Effective Date: 21/1/2022

Certificate of Inspection

1. Model: Automated Hematology Analyzer H560
2. Serial No.: K11042109048
3. Calibration Date: 21-01-2022
4. Material used: H Cal (Lot No. PLUS0122, Expiry date: 10-FEB-2022)

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.

Krishna 22/01/2022
Technical Service Department
Transasia Bio-Medicals Ltd



5. BACKGROUND CHECK

PARAMETER	RESULT	Range
WBC	0.0	0.3×10^3 /U1 or Less
RBC	0.00	0.02×10^6 /uL or Less
HGB	0.0	0.1 g/dL or Less
PLT	0	10×10^3 /uL or Less

Krishan 22/01/2022
Technical Service Department
Transasia Bio-Medicals Ltd



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

SMP NO	WBC	RBC	HGB	MCV	PLT
1	6.75	5.14	12.6	78.2	192
2	6.9	5.25	12.8	78.3	189
3	7.02	5.22	12.7	78.3	195
4	7.03	5.2	12.8	78.2	188
5	7.01	5.24	12.8	78.2	183
6	6.95	5.18	12.8	78.4	190
7	7.02	5.24	12.9	78.4	193
8	6.9	5.23	12.8	78.5	196
9	7.22	5.22	12.9	78.1	190
10	6.99	5.24	12.9	78.4	198
Mean	6.98	5.22	12.80	78.30	191.40
SD	0.12	0.03	0.09	0.12	4.38
CV%	1.73	0.65	0.74	0.16	2.29
Acceptable CV%	Within 3.5%	Within 2.0%	Within 1.5%	Within 2.0%	Within 6.0%
Result	PASS	PASS	PASS	PASS	PASS

Krishan 22/01/2022
Technical Service Department
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

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.

Table 1: Assignment results and uncertainty of reference method

	Reference	WBC (10 ⁹ /L)	RBC (10 ¹² /L)	HGB (g/L)	MCV (fL)	PLT (10 ⁹ /L)
H360	Calibrator	9.17	4.78	139	95.3	246
	Relative expansion Uncertainty %	1.9	0.7	0.1	0.1	5.0
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualified
H560	Calibrator	8.90	4.56	136	94.5	246
	Relative expansion Uncertainty %	2.5	0.7	0.3	0.2	5.1
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualified
ELite 580 (SW A10.4)	Calibrator	9.02	4.44	138	91.5	244
	Relative expansion Uncertainty %	2.1	0.8	0.1	0.1	4.6
	Standard	≤4%	≤2%	≤2%	≤2%	≤9%
	Result	Qualified	Qualified	Qualified	Qualified	Qualified

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 3. 1. 2022



Erba Lachema s.r.o

DECLARATION OF CONFIRMITY and CALIBRATION



The undersigned Erba Diagnostics Ltd., Unit 4, Block K, Vantage Suites, Central Park, Leopardstown, Dublin 18, manufacturer of diagnostic devices, with Company Quality Management System in compliance with standard ISO 13485,

declares, that the device:

Name:H560

K11042109048

complies with all the essential requirements listed in Annex I of Directive 98/79/EC and obligations specified in Annex III, art. 2 – 5 of Directive 98/79/EC for In vitro Medical-Diagnostic Devices.

Therefore Erba Lachema s.r.o. declares and assures the following:

1. The a.m. device complies with the applicable provisions of Directive 98/79/EC.
2. The a.m. device is not included in the list A and B of the Annex II of Directive 98/79/EC.
3. The manufacturer declares to have established a procedure and to maintain it in order to assure the post-marketing surveillance, according to the Directive of 98/79/EC.
4. All mentioned products are Factory calibrated and Final QC passed at the time of release.

Date of issue:


Feb-2021

Manish Airan
Representative of Quality Management

Erba Diagnostics Ltd.
Unit 4, Block K, Vantage Suites, Central Park, Leopardstown, Dublin 18
www.erbamannheim.com VAT Reg No : IE3517014VH

This is an electronically generated document requires no signatures.

Certificate of Conformity and Calibration

TRANSASIA BIOMEDICALS LIMITED				
TRAINING CERTIFICATE				
Instrument Name H-560	AUTOMATED HEAMATOLOGY ANALYZER	Instrument ID	K11042109048	

7th May 2021

TRAINING CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to Certify that Mr./MS ABHINAV KUMAR THAKUR Technical Staff Team of Sunshine Lab and Diagnostics, Mahaveer Enclave, Delhi, 110045 have successfully completed training on operation and maintenance, under supervision of our Application Specialist Amit Pal. Training held on:- Automated Heamatology Analyzer, Model: H-560



Amit Pal
Sr. Application Specialist

For Transasia Bio-Medicals Ltd.

Erba Lachema s.r.o



DECLARATION OF CONFIRMITY and CALIBRATION



The undersigned Erba Diagnostics Ltd., Unit 4, Block K, Vantage Suites, Central Park, Leopardstown, Dublin 18, manufacturer of diagnostic devices, with Company Quality Management System in compliance with standard ISO 13485,

declares, that the device:

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2. The a.m. device is not included in the list A and B of the Annex II of Directive 98/79/EC.
3. The manufacturer declares to have established a procedure and to maintain it in order to assure the post-marketing surveillance, according to the Directive of 98/79/EC.
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Date of issue:

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Manish Airan
Representative of Quality Management

Erba Diagnostics Ltd.
Unit 4, Block K, Vantage Suites, Central Park, Leopardstown, Dublin 18
www.erbamannheim.com VAT Reg No : IE3517014VH

This is an electronically generated document requires no signatures.

Certificate of Conformity and Calibration

ERBA– H560
AUTOMATED HEMATOLOGY ANALYZER

PERFORMANCE
QUALIFICATION

For

“Sunshine Lab & Diagnostics”

Marketed by:
Transasia Bio-Medicals Ltd.,
(ISO 9002 CERTIFIED)
Transasia House,
Chandivali Studio road,
Andheri (E),
MUMBAI – 400 072

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I. Approval of the PQ procedure

Both Sunshine Lab & Diagnostics and Transasia are jointly responsible for conducting the Performance Check of the Hematology Analyzer, Model : ERBA – H560, Serial No. in the clinical lab of Sunshine Lab & Diagnostics as per the attached protocol.

Protocol Performed By: Transasia Representative

Name : Amit Pal
Title : PERFORMANCE QUALIFICATION
Company : TRANSASIA BIO-MEDICALS LTD.

Signature: 
Date: 3-12-21


Validation Team from TSD :

Name :
Designation :
Department :

Name :
Designation :
Department :

Customer Authorizations: Sunshine Lab & Diagnostics

Name : Dr. P A Kumar
Title : PERFORMANCE QUALIFICATION
Site :

Signature: 
Date: 3-12-21

Name :
Title : PERFORMANCE QUALIFICATION
Site :

Signature:
Date:

II. Instructions

1. An authorized TRANSASIA representative will check for the performance of the instrument and enter the specific data as outlined in the Performance Qualification. Each result will be noted and dated.
2. Performance checks on a regular basis described in the Further Performance Checks (vide-infra) will be responsibility of the customer's personnel.
3. Employee of (Customer) Anand Diagnostic Laboratory will verify each result and sign in the last page. The members of the validation team will carry this out.
4. ALL deviations from the acceptance criteria detailed in this document will be noted in the COMMENTS section at the end of each PQ protocol. All resolution to such problems will also be noted in the COMMENTS section, and must be resolved prior to issuance of a SYSTEM CERTIFICATION. These will be an additional cost to the purchasing institution Sunshine Lab & Diagnostics. However this additional cost will be waived when this test is conducted at time of initial performance check of new instruments.
5. Any test data that does not meet the specified acceptance criteria will be submitted to the appropriate laboratory personnel for solution. All steps taken subsequently will be documented.
6. This document contains proprietary information and is in no way to be copied, photographed or duplicated in any way without expressed written authorization by the Production Manager at Transasia Bio-Medicals Ltd., Transasia House, Mumbai.

Validation Team:

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

III. Scope

This Performance Qualification protocol will be performed on the Hematology Analyzer, Model ERBA -H560, Serial No-K114210 9048 located in Sunshine Lab & Diagnostics. This Protocol will define the documentation that will be used to evaluate the instruments installation in accordance with the manufacture's specifications and intended use. Successful completion of this protocol will verify that the instrument identified is performing in accordance with the intended usage.

Trained, knowledgeable personnel will perform qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated and the appropriate course of action determined. All documents will be initialed and dated.

Validation Team:

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

IV. Performance Qualification

a. Instrument Identification

Verified Date

1. Model Name	ERBA – H560	3-12-21
2. Serial Number	K1104210904	3-12-21

b. Following is a list of tests to be performed and verified:

<u>Test No.</u>	<u>Test Name</u>	<u>Test Purpose</u>	<u>Verified Date</u>
02	Sample Processing	Ability to process samples	3-12-21
03	Further Performance Checks	Regular Maintenance	NA

Validation Team:

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

c. Performance Testing

Test 1

Test Name:

Sample Processing

Purpose:

Ability to Process Samples

Method:

1. **Run the control samples five times consecutively**

Acceptance Criteria: Each of the results obtained above should be within the range as specified in the control chart.

Parameters Values for Verification:

QC Run % times, Data attached

Validation Team:

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

Test 2

Test Name:

1. Tests for checking the performance of the instruments during analysis
2. Tests for checking long term performance of the instrument

Purpose:

The purpose of the above checks is to ensure the reliability of the results being obtained.

Method:

1. During Sample analysis:

To run control samples each time the instrument is used for sample analysis and verification of the results of the controls to be within the reference range to be established by performance of the precision experiments.

2. Long term Performance

This is to be checked by Levy Jennings plots to be updated once in six months

Validation Team:

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

V. System Certification

Study data has determined that the system described in this document either meets all criteria outlined in this Performance Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for specified usage.

Report Performed By: Transasia Representative

Name : Amit Pal

Title : PERFORMANCE QUALIFICATION Signature: 

Company: TRANSASIA BIO-MEDICALS LTD. Date :3-12-21

Customer Authorizations: Sunshine Lab & Diagnostics

Name : Dr. P A Kumar

Title : PERFORMANCE QUALIFICATION Signature: 

Site : Sunshine Lab & Diagnostics Date :3-12-21

Name :

Title : PERFORMANCE QUALIFICATION Signature:

Site : Date

OPERATIONAL
QUALIFICATION

For

TRANSASIA

ERBA H560
AUTOMATED HEMATOLOGY
ANALYZER
Sunshine Lab & Diagnostics

Marketed by:
Transasia Bio-Medicals Ltd.,
(ISO 13485 CERTIFIED)
Transasia House,
Chandivali Studio road,
Andheri (E),

MUMBAI – 400 072

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I. Approval of the OQ procedure:

Sunshine Lab & Diagnostics and Transasia are jointly responsible for operational check of the HEMATOLOGY Analyzer, Model: Erba H560, serial no. K1104210948 in the clinical lab of Sunshine Lab & Diagnostics as per protocol attached.

Protocol Performed by: Transasia Representative

Name : Amit Pal
Title : OPERATIONAL QUALIFICATION
Company : TRANSASIA BIO-MEDICALS LTD.

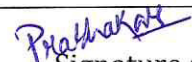
Signature : 
Date : 3-12-21

Validation Team from _____ TSD _____

Name :
Designation :
Department :

Customer Authorization: Sunshine Lab & Diagnostics

Name : Dr P A Kumar
Title : OPERATIONAL QUALIFICATION
Site : Palam

Signature : 
Date : 3-12-21


II. Instructions

1. The TRANSASIA representative will check each module and enter the specific data as described in the Operational Qualification. Each result will be noted and dated.
2. Employee of Sunshine Lab & Diagnostics will verify each result and sign in the last page. The member/s of the validation team will be responsible for the same.
3. Any deviations from the acceptance criteria detailed in this document will be noted in the **COMMENTS** section of the OQ protocol. All resolution to such problems will also be noted in the **COMMENTS** section, and must be resolved prior to issuance of a SYSTEM CERTIFICATION. This will be an additional cost to the purchasing institution Sunshine Lab & Diagnostics. However this additional cost will be waived when this test is conducted at time of initial performance check of new instruments.
4. Any test data, which does not meet the specified acceptance criteria, will be submitted to the appropriate laboratory personnel for solution. All steps taken subsequently will be documented.
5. This document contains proprietary information and is in no way to be copied, photographed or duplicated in any way without expressed written authorization by the Product Manager at Transasia Bio-Medicals Ltd., Transasia House, Mumbai.

Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 

Date: 3-12-21

III. Scope

This Operational Qualification protocol will be performed on the Hematology Analyzer, Model H560, Serial No. K11042109048 located in Sunshine Lab & Diagnostics Clinical laboratory of Sunshine Lab & Diagnostics. This Protocol will define the documentation that will be used to evaluate the instruments installation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified is performing in accordance with the intended usage.

Trained, knowledgeable personnel will perform qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated and the appropriate course of action determined. All documents will be initialed and dated.

Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature:



Date: 3-12-21

IV. Operational Qualification

a. Instrument Identification

Verified Date

1. Model Name	H560	3-12-21
2. Serial Number	K11042109048	3-12-21

b. Following is a list of tests to be performed and verified and demonstrated to user:


Test Verified Date No.	Test Name	Test Purpose
1.	Liquid Pump	To verify pressure & vacuum generation
2.	Syringe Assembly	Capacity of Blood Aspiration Diluent Aspiration, Lyse 1 & 2 Aspiration
3.	Liquid Sensing PCB	To verify Liquid sensing ability Of sensors



Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 

Date: 3-12-21

c. Operational Testing

Test 1

Test Name : Liquid Pump.

Purpose : To test Liquid Pump

Method : Please follow the steps described in Erba H560
“Service Manual”

FAIL

PARAMETER

PASS

Parameter values for verification :

LIQUID PUMP






Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 

Date: 3-12-21

Test 2

Test Name : Syringe Assly

Purpose : To test function

**Method : Please follow the steps described in Erba H560
"Service Manual"**

FAIL

PARAMETER

PASS

Parameter values for verification

:

Syringe Assly



Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 


Date: 3-12-21

Test 3

Test Name : Liquid sensing PCB

Purpose : To test the liquid sensing operation.

Method : Please follow the steps described in Erba H560
"Service Manual"

	<u>PARAMETER</u>	<u>PASS</u>	<u>FAIL</u>
Parameter values for verification	: Liquid Sensing		

Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 

Date: 3-12-21

a. Certificate of Training

1. Technician Training

This certifies that the technicians listed below have received basic user training in the following categories for the system described in this Installation Qualification.

Mr. Amit Pal who is certified by Transasia Bio-Medicals Ltd has conducted the training.

Sr.No.	Training Program	Initials	Date
1.	Instrument Setup	} Done	3/12/21
2.	System Operation		
3.	Basic Troubleshooting & Maintenance		

2. Operator Training


The users responsible for the operation of this instrument will be trained in the proper usage of the system. Training will focus on the basic operation and maintenance of the system. The training of the operators will be documented and the training records will be filed as indicated below :

Sr.N o.	Operators	Location	Initials	Date
1	Abhinav	Palam	Civen	3-12-21

Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 

Date: 3-12-21

b. Customer SOP

Title	Number	Revision #	Effective Date	Location	Verified By	Date
Operating Procedure		NA	3-12-21	Palam	Amit Pal	3-12-21

Validation Team:

Name: Amit Pal

Designation: Sr. Application Specialist

Signature: 

Date: 3-12-21

COMMENTS:

VII. System Certification

Study data has determined that the system described in this document either meets all criteria outlined in this Operational Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for specified usage.

Report Performed By : Transasia Representative


Name : Amit Pal

Title : OPERATIONAL QUALIFICATION Signature : 

Company : TRANSASIA BIO-MEDICALS LTD. Date : 3-12-21

Customer Authorizations: Sunshine Lab & Diagnostics

Name : Dr. P A Kumar

Title : OPERATIONAL QUALIFICATION Signature : 

Company : Date : 3-12-21

Name :

Title : OPERATIONAL QUALIFICATION Signature :

Company : Date :

INSTALLATION
QUALIFICATION

For

TRANSASIA

ERBA H560
AUTOMATED HEAMATOLOGY ANALYZER
Sunshine Lab & Diagnostics

Manufactured by ERBA MANNHEIM
&

Marketed by:
Transasia Bio-Medicals Ltd.,
Transasia House,
Chandivali Studio road,
Andheri (E),
MUMBAI – 400 072

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	i	Installation Report Dt.
	ii	ISO 9002 certificate
	iii	Sample Page of the Logbook

I. Approval of the IQ procedure:

Sunshine Lab & Diagnostics Laboratory and Transasia are jointly responsible for the installation of the system ERBA HEMATOLOGY Analyzer, Model: H560, Serial No. K11042109048 in the clinical lab of Sunshine Lab & Diagnostics as per the attached protocol.

Protocol Performed By: Transasia Representative

Name : Amit Pal
Title : INSTALLATION QUALIFICATION
Company : TRANSASIA BIO-MEDICALS LTD.

Signature: 


Date: 3-12-21

Validation Team from _____ TSD _____:

Name :
Designation :
Department :

Customer Authorizations: Sunshine Lab & Diagnostics

Name : Dr P A Kumar
Title : INSTALLATION QUALIFICATION
Site :

Signature: 

Date :3-12-21

II. Instructions

1. This document is to be completed at the time the system is shifted to its current location and set up for operation.
2. An authorized TRANSASIA representative will check the system and enter the specific data as outlined in the appropriate Installation Qualification. Each result will be noted and dated.
3. Employee of Sunshine Lab & Diagnostics will verify each result and sign in the last page. The members of the validation team will carry this out.
4. ALL deviations from normal specification to include any problems with installation will be noted under COMMENTS. All resolution to such problems will also be noted in the COMMENTS section. Additional space is provided at the end of this protocol for the same.
5. This document contains proprietary information and is in no way to be copied, photographed or duplicated in any way without expressed written authorization by the Transasia Bio-Medicals Ltd., Transasia House, Mumbai.

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

III. Scope

This Installation Qualification protocol will be performed on the ERBA Hematology Analyzer, Model H560, Serial No. K11042109048 located Sunshine Lab & Diagnostics in This Protocol will define the documentation that will be used to evaluate the instruments installation in accordance with the manufacture's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been installed in accordance with the intended usage.

Installation checks will also be performed to verify that the instrument has been installed with proper connections and utilities.

Trained, knowledgeable personnel will perform qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated and the appropriate course of action determined. All documents will be initialed and dated.

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

IV. Ancillary Information.

a. Certification of Purchase Order Compliance

I certify to the best of my knowledge, the instrument is purchased under Purchase order sent against Quotation is in compliance with the specifications of the Purchase order.

Verified By : _Amit Pal

Date : _3-12-21

b. Utilities

Sr.No.	Utility	Yes / No	Verified By	Date
1.	Environmental condition as per requirement: (Ambient range of temperature 15 – 30 °C, relative humidity 30% to 85%, air conditioning facility, non exposure to direct sunlight, non-interference from high frequency radio waves)	✓ Yes / No	Amit 3/12/24	
2.	Adequate space for installation : (Minimum in mm. W 360 X D 410 X H 475 for the main unit clearance of around 50 cm from back around 50cm on top and around 50 cm on sides for the main unit)	✓ Yes / No		
3.	DIL-H560; LYSE1 & LYSE2 BOTTLES to be placed within a distance of 2 meters :	✓ Yes / No		
4.	Power Source Requirements* It should have minimum five 5amps plug. It should have proper grounding. In case of online UPS minimum power handling capacity should be minimum 1KVA Line- Neutral voltage: _____ Line –Earth voltage: _____ Neutral-Earth voltage: _____	✓ Yes / No		

* Encircle applicable source

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature 

Date 3-12-21

c. The instrument has been verified for the following

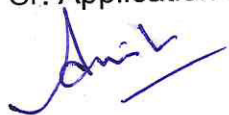
Sr.No.	Verification	Yes / No	Verified By	Date
1.	Instrument is identified	Yes / No	Amit	
2.	Manufacturer's specifications are included	Yes / No		3/12/24
3.	Accessories / Consumables are listed	Yes / No		
4.	Manufacturer's certificate of Compliance attached	Yes / No		

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

V. Installation Qualification

A. Equipment Description

This ERBA H560 is a fully automated five part Hematology analyzer for in vitro diagnostic use in clinical laboratories. The instrument provides accurate and precise test results for (29) parameters including three histograms & one scatter-grams.

Instrument identification		Verified by	Date
Equipment Name	Automated Hematology	Amit	3/12/21
Model	H560		
Manufacturer	Erba Mannheim		
Marketed By	Transasia		
Equipment #	H560		
Serial Number	K1104042109048		
Size (in mm)	W 360 X D 410 X H 475		
Power	AC 220 V		
Frequency	50 – 60 Hz		
Power Consumption	Less Than 250 VA		

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

Installation Qualification

Consumables such as H-Clean, DIL H560, LYSE1 & LYSE2 were supplied along with instrument.

Currently a sufficient stock of the same is being maintained

Yes No

C. List of Manuals, Certificates and Drawings

Transasia provides the following with the instrument.

1. Instructions For use
2. User's Guide

D. Change Control Procedure

The instrument will not be altered, enhanced, modified or substituted for another system until a formal Change Control Authorization is approved from Transasia Bio-Medicals Ltd. and Sunshine Lab & Diagnostics .

E. Maintenance

The instrument listed within this document will be placed under the control of the purchasing institution with respect to proper maintenance procedures as detailed in the User Manual.

A trained analyst using the manuals provided with the instrumentation can perform simple maintenance. Upon expiration of the warranty period Transasia offers several levels of Maintenance Agreements and Performance Testing services to assist you in maintaining **GLP/GMP** compliance. Contacting your local representative and requesting the additional Service Agreement can supply additional information.

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

F. Spare Parts

Transasia strongly recommends the end user maintain a basic of consumable parts onsite to minimize down time due to minor failures. They have provided a list of such consumable parts and the same is also available in the Operator's Manual.

C. Equipment Logs

Title	Location	Verified by	Date
		Amit Pal	3-12-21

Sample page of the logbook is attached to this document

Effective date: 3-12-21

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

H. Installation Procedure

(These had been performed at the time of original installation at the initial location)

1. Unpacking Checklist

Refer to Page-16 of ERBA H560 Instruction For Use

2. Check Before Installation

Refer to Page-14 of ERBA H560 Instruction For Use

3. Grounding

Refer to Page-14 of ERBA H560 Instruction For Use

4. Installation Environment & Space

Refer to Page-14 of ERBA H560 Instruction For Use

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

COMMENTS:

Validation Team :

Name Amit Pal

Designation Sr. Application Specialist

Signature



Date 3-12-21

VII. System Certification

Study data has determined that the system described in this document either meets all criteria outlined in this independently Installation Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for specified usage.

Report Performed By: Transasia Representative

Name : Amit Pal

Title : INSTALLATION QUALIFICATION Signature :



Company: TRANSASIA BIO-MEDICALS LTD. Date :3-12-21

Customer Authorizations: Sunshine Lab & Diagnostics

Name : Dr PA Kumar

Title : INSTALLATION QUALIFICATION Signature:



Company : Date :3-12-21

Name :

Title : INSTALLATION QUALIFICATION Signature:

Company: Date :

Date: 3-12-21

Reagent Check done

Printer checked

Analyzer switched ON at

SELF CHECK performed

RINSE CYCLE completed

Background limits within acceptable range

Analysis start time

Analysis end time

No. of samples analyzed

Shut down procedure done

Analyzer switched OFF at

Recorded by: _____

Checked by: Amit Pal

Date: 3-12-21