



CALIBRATION FACTOR DATA

The calibrator of below mentioned lot no. has been run Ten times and its MEAN and CV% is calculated automatically and the factors are automatically obtained by the instrument.

Calibrator Lot No.PLUS0222Calibrator Exp.05/03/2022InstrumentH33s

Sr. No. TH-17010237 **Calibration Date** 19/02/2022

		WB	calibration d	lata		
	Select	WBC	RBC	HGB	MCV	PLT
		10^9/L	10^12/L	g/dL	fL	10^9/L
Target		9.6	4.51	13.7	88.9	259
1	Yes	9.9	4.49	13.9	89.9	255
2	Yes	9.9	4.47	13.6	89.9	251
3	Yes	9.7	4.46	13.8	89.6	241
4	Yes	9.9	4.47	13.8	89.7	247
5	Yes	9.6	4.42	13.6	89.6	236
6	Yes	9.8	4.48	13.7	89.5	245
7	Yes	9.8	4.47	13.5	89.7	246
8	Yes	9.8	4.48	13.8	89.7	242
9	Yes	9.7	4.45	13.8	89.6	243
10	Yes	9.9	4.46	13.9	89.6	243
Mean		9.8	4.47	13.7	89.7	245
CV (%)		1.1	0.4	0.9	0.2	2.2
New Factor (%)		97.98	100.99	99.77	99.13	105.77
Old Factor (%)		97	100	94	100	100

CALIBRATION FACTOR: -

Parameter	Calibration Factor (%)	Date
WBC	97.98	19-02-2022
RBC	100.99	19-02-2022
HGB	99.77	19-02-2022
MCV	99.13	19-02-2022
PLT	105.77	19-02-2022



CIN: U24209HR1991PLC048501



Date:19.02.2022

CALIBRATION CERTIFICATE

To whom So Ever It May Concern

This is to certify that the below mentioned instrument installed Wellness Diagnostic Pvt. Ltd., Dharamveer Market 2nd Floor, Near, Seble Cinema & Metro Station Mathura Road, Badarpur, New Delhi-110044 Has Been Calibrated by Us On 19/02/2022, The Next Calibration is due on before 18/02/2023, The values are falling within the specified range.

The calibration is done by the service team of Avantor performance materials India Ltd.

The next calibration is due on 18th Feb 2023

Validity: -One year for Calibration factor data.

For Avantor Performance Materials India Ltd

Signature: - Sampose

Name: Sanjeev Kumar Customer Service Executive Mobile: +91 9811459701

Email: sanjeev.kumar@avantorsciences.com

Date: 19/12/2021





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BENESPHERA ™ H33s 3-PART DIFFERENTIAL HAEMATOLOGY ANALYSER

INSTALLATION QUALIFICATION (IQ) / OPERATIONAL QUALIFICATION (OQ)

FOR

WELLNESS DIAGNOSTIC PVT. LTD.

BY

AVANTOR PERFORMANCE MATERIALS INDIA LIMITED



Registered office 17th Floor, Building No. 5, Tower C, DLF Cyber City Phase-Ill, Gurgaon - 122002, Haryana, India Tel: +91-124 - 4656790 Fax: +91-124 - 4656799 Web: www.avantorinc.com CIN: U24209HR1991PLC048501

CERTIFICATE OF INSTALLATION

INSTRUMENT NAME	BENESPHERA ™ H33S
SR. NO.	TH-17010237
CUSTOMER NAME	Wellness Diagnostic Pvtd. Ltd.
	Dharamveer Market 2 nd Floor, Near, Seble Cinema & Metro
ADDRESS	Station Mathura Road, Badarpur, New Delhi-110044

THE UNDERSIGNED PERFORMERS CERTIFY THAT THE INSTALLATION QUALIFICATION PROTOCOL HAS BEEN SUCCEESSFULLY COMPLETED FOR THE ABOVE MENTIONED INSTRUMENT

ENGINEER			
	Sanjece		
SIGNATURE			
	CANUETY WILLIAM		
NAME	SANJEEV KUMAR		
DESIGNATION	CUSTOMER SERVICE EXECUTIVE		
COMPANY	AVANTOR PERFORMANCE MATERIALS INDIA LIMITED		

QUALITY MANAGER			
SIGNATURE			
NAME	MR. ARUN KUMAR		
DESIGNATION	DIRECTOR		
COMPANY	Wellness Diagnostic Pvt. Ltd.		



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INSTALLATION REPORT

CUSTOMER NAME	Wellness Diagnostic Pvt. Ltd.	
	Dharamveer Market 2 nd Floor, Near, Seble Cinema & Metro	
PLACE	Station Mathura Road, Badarpur, New Delhi-110044	
DEPARTMENT	Laborartory	
CONTACT PERSON	MR. Arun Kumar	
INSTRUMENT NAME	BENESPHERA ™ H33s	
SERIAL NUMBER	TH-17010237	
DATE OF INSTALLATION	11/01/2022	
WARRANTY EXPIRY	10/01/2027	

THE ANALYSER WAS INSTALLED ALONG WITH THE STANDARD APPLICABLE ACCESSORIES. ALL BASIC PARAMETERS WERE CHECKED AND ADJUSTED AND FOUND TO BE SATISFACTORY. THE PRELIMINARY SET UP AND TRAINING WERE PROVIDED TO THE CUSTOMER AND ANALYSER WAS HANDED OVER IN WORKING CONDITION.

FOR AVANTOR PERFORMANCE MATERIALS INSIA LIMITED

SANJEEV KUMAR

CUSTOMER SERVICE EXECUTIVE





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INSTALLATION QUALIFICATION

IQ PROTOCOL

- 1. SYSTEM UNPACKING
- 2. CHECK FOR ANY PHYSICAL DAMAGE
- 3. VERIFY ACCESSORIES LIST
- 4. SPACE REQUIRMENT
- 5. POWER REQUIREMENT
- 6. OPERATING ENVIRONMENT
- 7. REAGENTS VERIFICATION

1 SYSTEM UN PACKING / 2 CHECK FOR ANY PHYSICAL DAMAGE

BENESPHERA ™ H33s WAS UNPACKED AND CHECKED FOR ANY PHYSICAL DAMAGES. FOUND TO BE INTACT

3 VERIFY ACCESSORIES LIST

ACCESSORIES LIST WAS COMPARED WITH THE PHYSICALLY AVAILABLE ITEMS AND FOUND TO BE OK

4 SPACE REQUIREMENT

CHECKED AS PER THE BELOW INSTRUMENT DIMENSIONS

DIMENSIONS		
DEPTH (mm)	410	
WIDTH (mm)	300	
HEIGHT (mm)	400	

5 POWER REQUIREMENT

PARAMETER	REQUIRED	REMARKS
INPUT VOLTAGE THROUGH UPS	230 ±10V	ОК
LINE FREQUENCY	50-60 Hz	ОК
GROUNDING VOLTAGE	0-5 V AC	ОК



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6 OPERATING ENVIRONMENT

OPERATING ENVIRONMENT				
PARAMETER REQUIRED REMARKS				
TEMPERATURE	10°C - 40°C	ОК		
HUMIDITY	10% - 90%	ОК		
AIR PRESSURE	70kPa - 106kPa	ОК		

7 REAGENTS VERIFICATION

NAME	AVAILABILITY	REMARKS
M-30D DILUENT	YES	ОК
M-30 CFL LYSE	YES	ОК
PROBE CLEANSER	YES	ОК

THE INSTALLATION QUALIFICATION POINTS WERE CHECKED AND FOLLOWED AND FOUND TO BE OK AND FURTHER CERTIFIES THE INSTRUMENT TO BE INSTALLED AT THE GIVEN PREMISES

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Sanjece

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OPERATIONAL QUALIFICATION

THE OPERATION QUALIFICATION PROTOCOL IS A COLLECTOIN OF TEST CASES USED TO VERIFY THE PROPER FUNCTIONING OF A SYSTEM. SUCCESSFUL COMPLETION OF THE PROCEDURES IDENTIFIES THAT THE SYSTEM IS READY FOR OPERATION AND SUBSEQUENT PERFORMANCE ANALYSIS.

OQ PROTOCOL

- 1. SYSTEM CONNECTIONS
- 2. DILUENT / WASTE CONNECTIONS
- 3. LYSE CONNECTION
- 4. SYSTEM BOOTING / INITIALISATION CHECK
- 5. MAINTENANCE

SYSTEM CONNECTIONS

NAME	CHECK	REMARKS
3-PIN POWER CORD	CONNECTED	OK
EXTERNAL PRINTER (OPTIONAL)	AS PER MANUAL 2.4.6	NA

DILUENT / WASTE CONNECTIONS

AS PER FIGURE BELOW

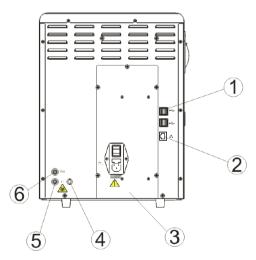


Figure 2-2 Back of the main unit

1 ---- USB port 3 --- Power assembly

5 --- Waste outlet

2 --- Network interface 4 --- Waste sensor connector

6 --- Diluent inlet

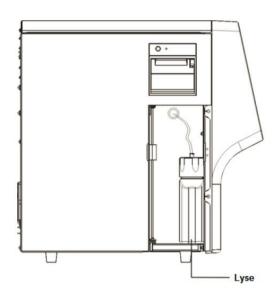




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LYSE CONNECTION

OPEN SIDE DOOR AND CONNECT THE LYSE



LOAD THE DILUENT & LYSE BARCODES FROM THE REAGENT SET UP MENU, AS MENTIONED IN THE OPERTAOR MANUAL 9.2.6.

4 SYSTEM BOOTING / INITIALISATION CHECK

- POWER ON THE ANALYSER
- MAKE SURE THE POWER INDICATOR ON THE ANALYSER IS ON
- ENTER USER ID & PASSWORD WHEN PROMPTED



• CHECK IF THE SYSTEM SEQUENTIALLY COMPLETES THE SELF TEST & INITIALISATION

	NORMAL BACK GROUND CHECK					
NO.	PARAMETER	ACTUAL	RANGE	REMARKS		
1	WBC	0.0	< 0.3	OK		
2	RBC	0.0	< 0.03	OK		
3	HGB	0.0	< 1.0	OK		
4	НСТ	0.0	< 0.5%	OK		
5	PLT	0.0	< 10	OK		



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OTHER PARAMETERS					
NO.	PARAMETER	ACTUAL	RANGE	REMARKS	
1	POWER +12 V	13.0 V	11V - 14V	OK	
2	POWER +24 V	28.5 V	20V - 30V	OK	
3	ANALOG +12 V	12.1 V	11V - 13V	OK	
4	ANALOG -12 V	(-11.9 V)	(-14V) - (-9.0V)	OK	
5	DIGITAL +56 V	56.0 V	47V - 63V	OK	
6	HGB BLANK	4.12 V	3.85V - 4.85V	OK	
7	APERTURE VOLTAGE RBC	13.29 V	9.3V - 17.3V	OK	
8	APERTURE VOLTAGE WBC	9.68 V	7.2V - 13.5V	OK	
9	DILUENT TEMPERATURE	30.7°C	5°C - 45°C	OK	
10	REGENT PRE-HEATING TEMP	30.7°C	22.4°C - 45°C	OK	
11	VACUUM	-28.6kPa	(-29.9)kPa - (-25.9)kPa	OK	

5 MAINTENANCE

MAINTENANCE				
NO.	PARAMETER	CHECK	REMARKS	
1	MAINTENANCE	OPERATOR MANUAL 10.2.1	ОК	
2	CLEANING	OPERATOR MANUAL 10.2.2	ОК	
3	OVERALL MAINTENANCE	OPERATOR MANUAL 10.2.3	ОК	

OPERATIONAL QUALIFICATION VERIFICATION WAS CARRIED OUT AS PER THE PROTOCOL AND INSTRUMENT WAS DEEMED FIT FOR PERFORMANCE QUALIFICATION.

FOR AVANTOR PERFORMANCE MATERIALS INSIA LIMITED

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