

# TRICARE SERVICE SOLUTION

Puthenangady road, Kottayam : 686001.

Email Id: [tricare@mail.com](mailto:tricare@mail.com) Ph: 0481-2934059

Mob: 8075224059

avantor | BeneSphera™

BeneSphera™ H33s  
3 PART DIFFERENTIAL HEMATOLOGY ANALYZER

Next generation hematology analyzer.



## Instrument Calibration/Validation Certificate

Customer name	Hi Tech Laboratory & ECG
Address	KFPSA Shopping Complex, Near Union Bank, Kulathupalam, Kumily 685509
Instrument	Benesphera H33S
Serial Number	TH-15009627
	<input checked="" type="checkbox"/> WARRANTY <input checked="" type="checkbox"/> AMC <input checked="" type="checkbox"/> RRC
Calibration	27.08.2021
Installation Date	27.08.2021
Due Date	27.08.2023



When you look for **QUALITY IN SERVICE**

## Instrument Condition

Room is Air-Conditioned	YES <input checked="" type="checkbox"/>	NO
Power Supply Earthing less than 3 V	YES <input checked="" type="checkbox"/>	NO
Room working environment is Good	YES <input checked="" type="checkbox"/>	NO

## Initial Check

• Switch on the instrument with Fluidic wash	<input checked="" type="checkbox"/> YES	NO
• Instrument is Initializing Properly	<input checked="" type="checkbox"/> YES	NO
• Display is showing all characters	<input checked="" type="checkbox"/> YES	NO
• Syringes movement is smooth during aspiration	<input checked="" type="checkbox"/> YES	NO
• Aspiration probe moving proper	<input checked="" type="checkbox"/> YES	NO
• HGB Lamp is Glowing	<input checked="" type="checkbox"/> YES	NO
• Reagent Temperature proper	<input checked="" type="checkbox"/> YES	NO
• Touch Calibration working properly	<input checked="" type="checkbox"/> YES	NO
• All valves are working properly	<input checked="" type="checkbox"/> YES	NO

## Validation

Performing parameter Check while startup:

PARAMETER	Result
WBC	0.0 x 10 <sup>3</sup>
HGB	0.0 g/dl
HCT	0.0 %
RBC	0.00 x 10 <sup>6</sup>
PLT	1x10 <sup>3</sup>

## Performance Check

- Diluent syringe Dispensing Volume: 100 ul YES
- lyse syringe Dispensing Volume: 10 ul YES



*When you look for QUALITY IN SERVICE*

## Instrument Condition

Room is Air-Conditioned	YES <input checked="" type="checkbox"/>	NO
Power Supply Earthing less than 3 V	YES <input checked="" type="checkbox"/>	NO
Room working environment is Good	YES <input checked="" type="checkbox"/>	NO

## Initial Check

• Switch on the instrument with Fluidic wash	<input checked="" type="checkbox"/> YES	NO
• Instrument is Initializing Properly	<input checked="" type="checkbox"/> YES	NO
• Display is showing all characters	<input checked="" type="checkbox"/> YES	NO
• Syringes movement is smooth during aspiration	<input checked="" type="checkbox"/> YES	NO
• Aspiration probe moving proper	<input checked="" type="checkbox"/> YES	NO
• HGB Lamp is Glowing	<input checked="" type="checkbox"/> YES	NO
• Reagent Temperature proper	<input checked="" type="checkbox"/> YES	NO
• Touch Calibration working properly	<input checked="" type="checkbox"/> YES	NO
• All valves are working properly	<input checked="" type="checkbox"/> YES	NO

## Validation

Performing parameter Check while startup:

PARAMETER	Result
WBC	0.0 x 10 <sup>3</sup>
HGB	0.0 g/dl
HCT	0.0 %
RBC	0.00 x 10 <sup>6</sup>
PLT	1x10 <sup>3</sup>

## Performance Check

- Diluent syringe Dispensing Volume: 100 ul YES
- lyse syringe Dispensing Volume: 10 ul YES



*When you look for QUALITY IN SERVICE*

- Blanking is proper during test YES
- Results are satisfactory YES
- Run 20 x check -Diluent and 20 x check Lyse as QC sample YES
- Run background Blank
- Run Calibrations
- Run QC material for several hematology applications

Test	QC Range Level 1	Test Results	QC Range Level 2	Test Results
WBC	6-8	7	15-17	16
HGB	10.08-13.02	12	15.5-18.5	17
RBC	5.4-6.6	6	9.9-12.01	11
PLT	210-253	245	400-447	430

**Remarks:**

- Instrument is calibrated and working in good condition
- Tested samples and found results are satisfactory

This calibration is valid from 27.08.2021 to 26.08.2022  
 Next Calibration is due on 27.08.2022

**Technical Acceptance By,**



Jobin Joseph  
Service Engineer



# TRICARE SERVICE SOLUTION

Puthenangady road, Kottayam : 686001.

Email Id: [tricare@mail.com](mailto:tricare@mail.com) Ph: 0481-2934059

Mob: 8075224059

avantor | BeneSphera™

## BeneSphera™ H33s 3 PART DIFFERENTIAL HEMATOLOGY ANALYZER

Next generation hematology analyzer.



### Installation Qualification

Customer name	Hi Tech Laboratory & ECG
Address	KFPSA Shopping Complex, Near Union Bank, Kulathupalam, Kumily 685509
Instrument	Benesphera H33S
Serial Number	TH-15009627
	<input checked="" type="checkbox"/> WARRANTY <input checked="" type="checkbox"/> AMC <input checked="" type="checkbox"/> RRC
Installation Date	27.08.2021



When you look for **QUALITY IN SERVICE**

## Initial Check

Machine is in good condition  YES

Not damaged /no missed parts  YES

## Installation

Perform the next steps

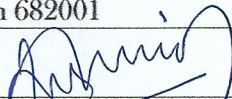
- Install reagents and waste containers
- Power up the Analyzer
- Start up the analyzer software
- Set System parameters
- Run "Background"
- Run sample and QC

Results:

Test	QC Range Level 1	Test Results
WBC	6-8	7
HGB	10.08-13.02	12
RBC	5.4-6.6	6
PLT	210-253	245



*When you look for QUALITY IN SERVICE*

CUSTOMER REPORT	INSTALLERS REPORT	
	Installation done successfully	
CUSTOMER DETAILS	<table border="1"> <tr> <td> <b>Hi Tech Laboratory &amp; ECG</b>  <b>KFPSA Shopping Complex, Near</b>  <b>Union Bank, Kulathupalam, Kumily</b>  <b>685509</b> </td> </tr> </table>	<b>Hi Tech Laboratory &amp; ECG</b> <b>KFPSA Shopping Complex, Near</b> <b>Union Bank, Kulathupalam, Kumily</b> <b>685509</b>
<b>Hi Tech Laboratory &amp; ECG</b> <b>KFPSA Shopping Complex, Near</b> <b>Union Bank, Kulathupalam, Kumily</b> <b>685509</b>		
SIGNATURE OF CUSTOMER		
INSTALLERS DETAILS	Tricare Service Solution XVIII 357/C Puthanaggady Road Kottayam 682001	
SIGNATURE OF THE INSTALLER		



# TRICARE SERVICE SOLUTION

Puthenangady road, Kottayam : 686001.

Email Id: [tricare@mail.com](mailto:tricare@mail.com) Ph: 0481-2934059

Mob: 8075224059

## Operational Qualification

- Remove all the transitional accessories/Clips/Packing
- Connect the waste tubing/Diluent/Lyse
- Switch on the system and check the display
- Check the initializing process
- Check the key pad keys
- Set system parameters
- Check valves and motor in the service menu
- Check aspiration of probe
- Check HGB Unit and RBC ,WBC Bath

CUSTOMER REPORT	INSTALLERS REPORT
	Verified all the operational qualifications. It is successful
CUSTOMER DETAILS	<b>Hi Tech Laboratory &amp; ECG</b> <b>KFPSA Shopping Complex, Near</b> <b>Union Bank, Kulathupalam, Kumily</b> <b>685509</b>
SIGNATURE OF CUSTOMER	
INSTALLERS DETAILS	Tricare Service Solution XV111 357/C Puthanaggady Road Kottayam 682001
SIGNATURE OF THE INSTALLER	



When you look for **QUALITY IN SERVICE**



# TRICARE SERVICE SOLUTION

Puthenangady road, Kottayam : 686001.

Email Id: [tricare@mail.com](mailto:tricare@mail.com) Ph: 0481-2934059

Mob: 8075224059

## Performance Qualification

### START UP

PARAMETER	Result
WBC	0.0 x 10 <sup>3</sup>
HGB	0.0 g/dl
HCT	0.0 %
RBC	0.00 x 10 <sup>6</sup>
PLT	1x10 <sup>3</sup>

Test	QC Range Level 1	Test Results	QC Range Level 2	Test Results
WBC	6-8	7	15-17	16
HGB	10.08-13.02	12	15.5-18.5	17
RBC	5.4-6.6	6	9.9-12.01	11
PLT	210-253	245	400-447	430

CUSTOMER REPORT	INSTALLERS REPORT
	Verified all the operational qualifications. It is successful
CUSTOMER DETAILS	<b>Hi Tech Laboratory &amp; ECG</b> <b>KFPSA Shopping Complex, Near</b> <b>Union Bank, Kulathupalam, Kumily</b> <b>685509</b>
SIGNATURE OF CUSTOMER	
INSTALLERS DETAILS	Tricare Service Solution XV111 357/C Puthanaggady Road Kottayam 682001
SIGNATURE OF THE INSTALLER	Jobin Joseph



When you look for QUALITY IN SERVICE