Avience Biomedicals Pvt. Ltd.

H.O.: C-11, 1st Floor, C Block, Community Center, Janakpuri, New Delhi-110058 Unit Add.: G-1, Sector-11, Noida, Distt. Gautam Budh Nagar, Uttar Pradesh-201301

CIN No:- U74999DL2019PTC359158 aviencebiomedicals@gmail.com 011-46074944, 18001204636 www.avienbio.com





# **Installation Qualification**

For Mindray BC-20s Sr No- TK-36015006

**Customer Name** 

: PRO BIOTIC DIAGNOSTICS PVT.LTD.

Customer Address

: 3rd Floor, C-4/206, Sector 6 Rd, Pocket-4, Sector 6, New Delhi -110085

Contact Person

: MS - JIYA MAKKAR

Instrument Model

:BC-20S - Auto Hematology Analyser

Serial No.

: SR.No.-TK- 36015006

Date of Installation

: 15TH DEC-2023

Site survey done and pre-installation checklist was made and found that the site is complying to all the requirements. The instrument packaging was checked and opened for installation.

Initial Inspection of the unit carried out and the details are as follows:

#### System Condition Report:

System delivered in satisfactory condition and no external physical damage observed on the same, Package was kept in good Condition as per the directional indicators like not tilt, indicating the system has not been subjected to mechanical shocks or stored in any manner, so as to cause any damage to the same.

Found all the required accessories are present.

Attached are the Check-Lists for the same.

AVIENCE BIOMEDICALS PVT.LTD

PRO BIOTIC DIAGNOSTICS PVT.LTD.

**Technical Services Department** 

Lab Services

Engineer Name: RAHULPAL Designation: Sr. Service Engineer-IVD Contact Person: MS-JIYA MAKKAR

Signature:

Imakkas

Signature:



#### 1. Installation Site Checklist

S.No	o. Inspe	ection Item	Description	Acceptance Criteria	Result	Remarks
1		Ambient Temperature	Within normal operation temperature	10°C to 30°C	Pass Fail	ok
	Working	Humidity	Within operating humidity range	20% to 85%	Pass Fail	٥٢
	Environment	Atmospheric Pressure	Within operating atmospheric pressure	70KPa to 106 Kpa	Pass Fail	OK
		Electromagnetic Interferences	Keep Away from electromagnetic interference sources	-	Pass  Fail	OK
2	Space Requiren	nents	Space	Meet the Space Requirements	Pass Fail	OK
3	Heat Dissipation	1	Space requirement for Radiator Fan	At least 100mm to each side of the analyzer	Pass Fail	OK
	Power Requirements of the nain unit and pneumatic unit		Power Supply Voltage and Frequency	Meet the requirements	Pass Fail	OK





## 2. Instrument Installation Checklist

S.No.	Inspection Item	Description	Acceptance Criteria	Result	Remarks
1	The package box and appearance of the main unit	Action Control of the	Package and Appearance	Pass Fail	01
2	The package box and appearance of the pneumatic unit	Package and Appearance	Package and Appearance	Pass  Fail	ok
3	The package box and appearance of the autoloader unit	Package and Appearance	Package and Appearance	Pass  Fail	OK
4	Item Packing List	Package and Appearance	All Items are included	Pass Fail	OK
5	Removing the fixing components of the pneumatic unit	Remove the fixing screws	The fixing screws are removed	Pass Fail	oK.
6		Stop bar of the Front Cover	Cut the cable ties	Pass  Fail	OK
		Manual Sampling Assembly	Cut the cable ties	Pass Pail	er
	Removing the fixing components of the Analyzer	Cylinder of the mixing assembly	Cut the cable ties	Pass  Fail	OK
		Piercing probe residual liquid tray	Cut the cable ties	Pass Fail	OK



Contd..



S.No.	Inspection Item	Description	Acceptance Criteria	Result	Remarks
7	Removing the plastic ties fixing the autoloader	Removing the plastic ties on autoloader	Ties are cut off	Pass Fail	ok
8	Remove the separator plate of the SRV	Separator plate of the SRV	Separator Plate of the SRV removed	Pass Fail	OK
11	Connection of Waste	Waste tube and sensor	Tube connected properly and not bent	Pass Fail	٥K
12	Connection of Diluent	Connection of diluent container cap	Tube connected properly and not bent	Pass Fail	oK
13	Connections of the Optional Equipments	Connection of Printer	Connected Properly and working	Pass  Fail	OK



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CIN No:- U74999DL2019PTC359158 (20) aviencebiomedicals@gmail.com (30) 011-46074944, 18001204636 (#) www.avienbio.com





# **Operational Qualification**

For Mindray BC-20s Sr No- TK-36015006

**Customer Name** 

: PRO BIOTIC DIAGNOSTICS PVT.LTD.

**Customer Address** 

: 3rd Floor, C-4/206, Sector 6 Rd, Pocket-4, Sector 6, New Delhi -110085

Contact Person

: MS -JIYA MAKKAR

Instrument Model

:BC 20S - Auto Hematology Analyser

Serial No.

: SR.NO-TK-36015006

Date of Installation

: 15TH DEC 2023

Instrument was installed and working satisfactory. Preliminary Customer Training was provided and standardization of the parameters was done. The results are within the expected range and system found to be working satisfactorily.

### Initial Inspection of the unit carried out after installation:

All the checks of the instrument were performed as per the Operational Checklist. Analyzer configuration and status for Temperature, Pressure and other test points was checked.

Attached are the Check-Lists for the same.

### AVIENCE BIOMEDICALS PVT.LTD

**Technical Services Department** 

Engineer Name: RAHUL PAL

Designation: Sr. Service Engineer -IVD

Signature:

PRO BIOTIC DIAGNOSTICS PVT.LTD Lab Services

Contact Person : JIYA MAKKAR

Signature

Gnakkas



# 1. Instrument Operational Setup Checklist

Inspection Item	Description	Acceptance Criteria	Result	Remarks
Analyzer Version Information	Version Information	Correct Version	Pass Fail	OK
	250KPa	250Kpa <u>+</u> 5Kpa	Pass Fail	ok
	-70Kpa	No Alarms or Warnings	Pass Fail	OK
Analyzer Pressure Status	106Kpa	106Kpa <u>+</u> 2Kpa	Pass Fail	OK
	70Kpa	70Kpa <u>+</u> 1Kpa	Pass Pail	OK
	40Kpa	40Kpa <u>+</u> 1Kpa	Pass Fail	OL
	-38Kpa	-38Kpa <u>+</u> 0.5Kpa	Pass  Fail	OK
nalyzer Temperture Status	Temperature Values	Meet Requirements	Pass Pail	or
Itage and Current	Voltage and Currents	Meet Requirements	Pass Pail	oK
tware function ifiguration	Configurations	Correct	Pass Pail	010
	Analyzer Version Information  Analyzer Pressure Status  alyzer Temperture Status  tage and Current  tware function figuration	Analyzer Version Information  250KPa  -70Kpa  106Kpa  Analyzer Pressure Status  70Kpa  40Kpa  -38Kpa  alyzer Temperture Status  Voltage and Current  tware function figuration  Configurations	Analyzer Version Information  Version Information  250KPa	Analyzer Version Information  Version Information  Z50KPa  Z50KPa  Z50Kpa ± 5Kpa  Pass Fail  -70Kpa  No Alarms or Warnings  Pass Fail  106Kpa  106Kpa ± 2Kpa  Pass Fail  70Kpa  70Kpa ± 1Kpa  Pass Fail  40Kpa  40Kpa ± 1Kpa  Pass Fail  -38Kpa  -38Kpa ± 0.5Kpa  Fail  Pass Fail



#### Contd..

S.No.	Inspection Item	Description	Acceptance Criteria	Result	Remarks
6	Confirm the Pierce Probe Piercing Depth	Pierce Probe Piercing Depth	Analyzer can well aspirate from a 1ml Sample	Pass Pail	OK
7	SRV Hole Alignment Verification	The pin is properly aligned with the positioning hole	Meet Requirement	Pass Fail	oK
8	Sample Aspiration	Aspiration Position	Meet Requirement	Pass Fail	or
9	Piercing	Piercing Position	Meet Requirement	Pass  Fail	٥٢
11	Date Format	Date Setup	Meet Client's Requirement	Pass Fail	oK
12	Auxiliary Setup	Auxiliary Setup Items	Meet Client's Requirement	Pass Fail	oK_
13	Reagent Setup	Reagent Barcode and Lot number Information	Reagent Barcode and Lot number Information entered correctly	Pass Fail	OK
14	Maintenance Setup	Settings of the maintenance setup	Settings are suitable for the laboratory	Pass Fail	OK

Contd..





S.No.	Inspection Item	Description	Acceptance Criteria	Result	Remarks
15	HgB Blank Voltage Check	Hgb Blank Voltage Value	4.5V ± 0.1V	Pass Fail	oK
16	Advanced Setup	Settings of the advanced setup	Correctly Setup	Pass  Fail	or
		Blood Sample Sensor	2.30V to 2.4V	Pass Fail	OK
17	Sensor Level Setup	Fluorescent Reagent Sensor	2.30V to 2.4V	Pass  Fail	014





# 2. Instrument Installation Operational Performance Checklist

## a. Background Test

Inspection Item	Description	Acceptance Criteria	Obtained Value	Result	Remarks
	WBC	≤ 0.2 X 10 <sup>9</sup> / L	0.0 X 10 <sup>9</sup> / L	Pass Fail	oK
				1	
JAC.	RBC	≤ 0.02 X 10 <sup>12</sup> / L	0.0 X 10 <sup>12</sup> / L	Pass Fail	6F
Background			NO NO PERSONAL PROPERTY AND PARTY AN		
	Hgb	≤ 0.1 gm/ L	0.0 gm / L	Pass  Fail	014
	PLT	≤ 10X 10 <sup>9</sup> / L	0 X 10 <sup>9</sup> / L	Pass  Fail	614
	Item	RBC  Background  Hgb	Name	NBC   ≤ 0.2 X 10 <sup>9</sup> / L   0.0 X 10 <sup>9</sup> / L	Note





### b. Carry-Over Test

S.No.	Inspection Item	Description	Acceptance Criteria	Obtained Value	Result	Remarks
		WBC	≤0.50%	0.10%	Pass Fail	oŁ
		RBC	≤ 0.50%	0.00%	Pass  Fail	٥Ł
2	Carryover	Hgb	≤ 0.60%	0.00%	Pass Fail	OK
		PLT	≤1.00%	0.00%	Pass  Fail	oK





### c. Repeatability Test

S.No.	Inspection Item	Description	Acceptance Criteria	Obtained Value	Result	Remarks	
	3 Repeatability	WBC	≤ 2.5%	0.8%	Pass Fail	oK	
		RE	RBC	≤ 1.5%	0.9%	Pass Fail	ok
3		Hgb	≤ 1.5%	0.5%	Pass  Fail	oK	
		PLT	≤ 4.0%	2.1%	Pass  Fail	OK	

