Installation Qualification, Performance, Qualification and Operational Qualification

HUMA COUNT 5D

(Serial no: N11041742031)
Fully Automated Hematology Analyzer

For

DOC OPD LABS,

#246, Okhla Industrial Estate, Phase III, New Delhi 110020, India, Tel: 011 4646 5000.

Visit us: http://www.HUMAN .com/in/

Table of Contents:

Section 1 General Instructions

Section 2 Installation Qualification

- I. Installation Qualification.
- II. Installation Procedure.
- III. Installation Certificate.

Section 3 Operational Qualification

- I. Operational Qualification.
- II. Operational Training Record.
- III. Operator Maintenance Protocol.
- IV. Operational Certificate.

Section 4 Performance Qualifications

- I. Performance Qualification.
- II. Performance Certificate.

Section 5 Attachments

Table of Contents:

Section 1 General Instructions

Section 2 Installation Qualification

- I. Installation Qualification.
- II. Installation Procedure.
- III. Installation Certificate.

Section 3 Operational Qualification

- I. Operational Qualification.
- II. Operational Training Record.
- III. Operator Maintenance Protocol.
- IV. Operational Certificate.

Section 4 Performance Qualifications

- I. Performance Qualification.
- II. Performance Certificate.

Section 5 Attachments

Table of Contents:

Section 1 General Instructions

Section 2 Installation Qualification

- Installation Qualification.
- II. Installation Procedure.
- III. Installation Certificate.

Section 3 Operational Qualification

- I. Operational Qualification.
- II. Operational Training Record.
- III. Operator Maintenance Protocol.
- IV. Operational Certificate.

Section 4 Performance Qualifications

- 1. Performance Qualification.
- Performance Certificate.

Section 5 Attachments

General Instructions:

- HUMAN India Pvt. Ltd. is responsible for installation of HUMA COUNT 5D Fully 6 part Part Automated Hematology Analyzer, at DOC OPD LABS. As per the attached protocol.
- An authorized HUMAN India Pvt. Ltd., representative will physically check the system and proceed for the installation.
- This installation protocol will be followed as specified by the manufacturer.
- Installation checks will also be performed to verify that the instrument has been installed with proper connections and utilities.
- An authorized HUMAN India Pvt. Ltd. representative will also perform the precision check on the system to check if it is as per the claim of the manufacturer.
- The results obtained for Calibration, QC & Precision checks will be verified by the qualified trained employee of
- DOC OPD LABSalong with an authorized HUMAN India Pvt. Ltd., representative.
- On completion of the Installation all the necessary documents of the System checks will be used to evaluate the instrument installation in accordance with the manufacturer's protocol and intended use.
- An authorized HUMAN India Pvt. Ltd., representative will verify the documents of the system checks and approve the same.
- Successful completion of this protocol will verify that this instrument has been installed in accordance with the intended usage.

Report Sign Off

Prepared by:	HUMAN	Medical - HUMAN	India Pvt. Ltd.
Name:	RAHUL	RAJPUT	
Title; Engineer a support	t Customer	Sign:	Date: 04/06/2022
Approved by:			
Name:	Mr. ARI	UN KUMAR	No. 1
Title: Lab Inchar	ge	Sign:	Date: 04/06/2022

General Instructions:

- HUMAN India Pvt. Ltd. is responsible for installation of HUMA COUNT 5D Fully 6 part Part Automated Hematology Analyzer, at DOC OPD LABS. As per the attached protocol.
- An authorized HUMAN India Pvt. Ltd., representative will physically check the system and proceed for the installation.
- This installation protocol will be followed as specified by the manufacturer.
- Installation checks will also be performed to verify that the instrument has been installed with proper connections and utilities.
- An authorized HUMAN India Pvt. Ltd. representative will also perform the precision check on the system to check if it is as per the claim of the manufacturer.
- The results obtained for Calibration, QC & Precision checks will be verified by the qualified trained employee of
- DOC OPD LABSalong with an authorized HUMAN India Pvt. Ltd., representative.
- On completion of the Installation all the necessary documents of the System checks will be used to evaluate the instrument installation in accordance with the manufacturer's protocol and intended use.
- An authorized HUMAN India Pvt. Ltd., representative will verify the documents of the system checks and approve the same.
- Successful completion of this protocol will verify that this instrument has been installed in accordance with the intended usage.

Report Sign Off

Prepared by:	HUMAN	HUMAN Medical - HUMAN India Pvt. Ltd.	
Name:	RAHUL	RAJPUT	
Title; Engineer a	t Customer	Sign:	Date: 04/06/2022
1 600			
pproved by:			
Vame:	Mr. AR	UN KUMAR	
Fitle: Lab Inchar	rge	Sign:	Date: 04/06/2022

HUMA COUNT 5D

(Serial no: N11041742031)
Fully Automated Hematology Analyzer

For

DOC OPD LABS,

#246, Okhla Industrial Estate, Phase III, New Delhi 110020, India, Tel: 011 4646 5000.

Visit us: http://www.HUMAN .com/in/

A. Installation Qualification

1. Installation Requirement :

Sr. No.	Description	Compliance (Yes/No)
1.	Environmental conditions: Indoor Location not exposed to sunlight, water and vibration free platform. Temperature of 16°C to 34°C and maximum relative humidity of 80%.	yes
2.	Physical Space Requirement: 36(W) x 36(D) x 53(H)cm with at least 20 cm space at the back of the instrument from the wall.	yes
3.	Electrical Requirements: Power supply - 100Vac- 240 Vac +/- 10%. Power consumption – Maximum 150VA with earth less than 3 V.	yes
4.	UPS connection available.	yes

2. The instrument has been checked for the following:

Sr. No.	Verification	Provided (Yes/No)
	Instrument is identified Instrument Serial No.: N11041742031	Yes
2.	Manufacturer's specifications: Technical and Physical Requirement	Yes
3.	Accessories / consumables are listed as per checklist (Provided along)	Yes
4.	System checked for any External / physical damage.	Yes
5.	Instrument User Manual (Soft Copy)	Yes

3. Equipment Description:

HUMA COUNT 5D, Fully Automated Hematology Analyzer

Instrument Identification	Verified Yes/No
Equipment Type : Hematology Analyzer	Yes
Model : HUMA COUNT 5D	Yes
Manufacturer: HUMAN Medical, France	Yes
Marketed By :HUMAN Medical - HUMAN India Pvt. Ltd.	Yes
Equipment # : One	Yes
Serial Number : N11041742031	Yes
Dimensions: 36(W) x 36(D) x 53(H)	Yes
Power Supply: 100Vac to 240Vac (+/-10%)	
50Hz to 60Hz	Yes
Power Consumption: 150 VA	

4. Accessories/Consumables:

The accessories were supplied with the instrument as per the check list. Check &verified in case they are found to be in order.

5. Preventive Maintenance:

The routine preventive maintenance of the system will be carried out by an authorized HUMAN India Pvt. Ltd., engineer at a specified time interval as recommended by the manufacturer.

6. Spare Parts:

HUMAN India Pvt. Ltd strongly recommends the end user to maintain a basic consumable parts onsite to minimize down time due to minor failures. Spare parts as provided in the installation kit.

B. Installation Procedure:

- Putting the system at the predefined and pre inspected location (Having suitable Working Conditions).
- 2. Removal of the internal packing material of the system.
- 3. Place the Instrument on the bench top (Vibration free).
- 4. Connect the Power cord to the HUMA COUNT 5D.
- 6. Turn on the inbuilt Printer.
- 7. All the operating software has been loaded in to HUMA COUNT 5D.
- Now from back side of the instrument turn the power switch ON. HUMA COUNT 5D goesthrough its power up and self-test sequence.
- The HUMA COUNT 5D login menu is displayed after the Start up cycle is completed. Enter theoredentials.

C. INSTALLATION CERTIFICATE:

Instrument Name

: HUMA COUNT 5D

Serial Number

: N11041742031

Customer Details

: DOC OPD LABS

address

NOIDA

Installation Date

: 04/06/2022

Warranty expires on

: 03/06/2023

Prepared by:	HUMAN	Medical - HUMA	N India Pvt. Ltd.
Name:	Rahul R	ajput	
Title: Engineer a	t Customer	Sign:	Date: 04/06/2022
Approved by:	DOC OF	PD LABS	
Name:	Mr. Aru	n Kumar	
Title: Lab Inchar	ge	Sign:	Date: 04/06/2022

Deviation:

<u>Conclusion:</u> Instrument has been qualified for Installation. Hence it has been taken for Operational Qualification.

HUMA COUNT 5D

(Serial no: N11041742031)

Fully Automated Hematology Analyzer

For

DOC OPD LABS,

#246, Okhla Industrial Estate, Phase III, New Delhi 110020, India, Tel: 011 4646 5000.

Visit us: http://www.HUMAN .com/in/

A. Operational Qualification

1. Instrument Identification:

Instrument Name

HUMA COUNT 5D

Serial Number

N11041742031

2. Following is the list of actions performed and verified for running the system routinely.

Sr. No.	Test Name	Test Purpose	Method	Observation
1.	SYSTEM SWITCH ON	TO CHECK THE ERROR FREE POWER UP.	Switch on the main, switch on the system. Login into yumizen Application software. Start up cycle is performed . Login in as User and check for the Screen Errors.	Ok
2.	STARTUP CYCLE	TO CHECK THE BACK GROUND IS OK.	Run a startup cycle from the main menu; check if the background is in the acceptable range.	Ok
3.	PRINTER TEST	TO CHECK STATUS OF THE PRINTER.	Initiate a self-test of printer or run a sample to check the print.	Ok
4.	REAGENT	TO CHECK ADEQUATE REAGENT IS AVAILABLE FOR ANALYSIS	Manually check in the reagent bottles or else change the reagent from the Status Menu.	Ok

5.	SAMPLE ANALYSIS	TO CHECK PROPER FUNCTIONING OF SAMPLE ANALYSIS	To run Stat/ Manual sample, press on sample identification and enter the sample ID and press on validate.	Ok
6.	ARCHIVE AND CURRENT REPORTS	TO RECOVER THE SAMPLE RESULT FROM ARCHIVE AND CURRENT REPORTS	Press on Results History icon and view the current results. To view archived reports, Select Archive results and select the date of the reports and view the report.	Ok
7.	QUALITY CONTROL DATA	TO RECOVER QUALITY CONTROL DATA AND LJ GRAPH	Press on QC Icon from the Main Menu and select the Lot No. To view on QC Runs, Click on Dates.	Ok
8	FLAGS AND ALARMS	TO CHECK THE PROPER FLAGS AND ALARMS FOR SAMPLES	Run sample to verify alarms and flags.	Ok

B. Operational Training Record

Operator Training: The users responsible for the operation of this instrument will be trained on 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 filled as indicated below:

C. Operator Maintenance Protocol

Maintenance and Troubleshooting: Perform Concentration Cleaning as advised by the HUMAN Medical Representative .Run a Shutdown cycle before switching off the analyzer .

OPERATIONAL CERTIFICATE:

Instrument Name

: HUMA COUNT 5D.

Serial Number

: N11041742031

Customer Details

: DOC OPD LABS

Laboratorywith complete address NOIDA

Installation Date

: 04/06/2022

Warranty expires on

: 03/06/2023

Prepared by:	HUMAN Medical - HUMAN India Pvt. Ltd.
Name:	Rahul Rajput

Title: Engineer a	t Customer	Doc opd labs	Date: 04/06/2022
Approved by:	DOC OP	D LABS	
Name:	Mr. Aru	n kumar	
Title: Lab inchar	ge	Sign:	Date: 04/06/2022

Deviation:

<u>Conclusion:</u> Instrument has been qualified for Operational. Hence it has been taken for Performance Qualification.

HUMA COUNT 5D

(Serial no: N11041742031)
Fully Automated Hematology Analyzer

For

DOC OPD LABS,

NOIDA

Performance Qualification

For

#246, Okhla Industrial Estate, Phase III, New Delhi 110020, India, Tel: 011 4646 5000.

Visit us: http://www.HUMAN .com/in/

A. Performance Qualification

A. Instrument Identification:

Instrument Name

: HUMA COUNT 5D

Serial Number

: N11041742031

B. Following is the list of test to be performed and verified

Blank Reference evele: To verify the Startup Cycle of the instrument.

Serial No: 907YOXH02566

Parameters	Acceptable Range	Observed Value
WBC 10 ³ /mm ³	≤ 0.3 ×10 ³ / mm ³	0.0
RBC 10 ⁶ /mm ³	≤ 0.02× 10 ⁶ /mm ³	0.00
HGB g/Dl	≤ 0.3 g/dl	0.0
PLT 10 ³ /mm ³	≤10×10³/mm³	0

Conducted By:

- Control Runs: The quality of the analyzer is checked by running three levels of Controls & getting the values in the range as per the kit insert.
 - Lot: ABX Difftrol; PX421; Exp: 10/12/2023.

Serial No: N11041742031

LEVEL	STATUS
LOW (PX 424L)	OK
NORMAL (PX 424N)	ОК
HIGH (PX 424H)	OK

Conducted By:

Precision Study: Precision is checked by running blood sample in 10 replicates & getting CV% in within acceptance.

Serial No: N11041742031

Parameters	CV % Acceptance	CV % Observed	Comments
RBC 106/mm ³	< 2.0	0.6	
HGB g/dL	< 1.5	0.5	
HCT %	< 2.0	0.7	
PLT 10 ³ /mm ³	< 5.0	3.9	
WBC 10 ³ /mm ³	< 2.5	1.2	
GRA %	<4	2.0	
	<10	1.3	
LYM%			
MON%	<20	6.4	

Conducted By:

- Carryover Study: Carry over is checked by running quality controls (Low & high) in 3 replicates & getting CV% in within acceptance.
 - Carry Over %= (L1-L3)*100/(H3-L3).

Serial No: N11041742031

Parameters	WBC 10 ³ /mm ³	RBC 10 ⁶ /mm ³	HGB g/dL	HCT %	PLT 10 ³ /mm ³
Carry Over	0.5	0.9	0	0.6	0.2
Manufacturer acceptable CV%	<1%	<1%	<1%	<1%	<1%
Status	Passed	Passed	Passed	Passed	Passed

Conducted By:

B. PERFORMANCE CERTIFICATE:

Instrument Name

: HUMA COUNT 5D

Serial Number Customer Details : N11041742031 : DOC OPD LABS

complete address

NOIDA

Installation Date Warranty expires on : 04/06/2022 : 03/06/2023.

Prepared by:	HUMAN Medical - HUMAN India Pvt. Ltd.				
Name:	Rahul-Rajput				
Title:Engineer at support	Customer Sign:	Date:04/06/2022			
Approved by:	DOC OPD LABSLaboratory				
Name:	Mr.Arun Kumar				
Title: Lab Inchar	ge Sign:	Date:04/06/2022			

Deviation:

Conclusion: Instrument has been qualified for Performance.

ATTACHMENTS

Attachment No	Document Title	Page Nos.	Verified By Sign/Date
THE ANDER			

