

Calibration Certificate

This is to Certify that Biochemistry Analyzer Meril **AutoQuant-200i** Instrument Sr. No. <u>AQ-050974</u> Installed at **Delhi Clinical Laboratory**, **Haryana** has been calibrated by our engineer on **07-Jun-2022** with appropriate and sophisticated tools. Below parameter has been calibrated:

TEST ITEMS AND RESULT

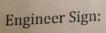
Appearance	No Imbalance Probe Movement
Leakage in Water tubing or CRU	No water leakage
Ambient temp (15-32) Degree	24.0 degree C
Lamp Check	Ok
Sample Dispersing Volume	In range (0 to 30 ul)
Reagent cooling Temperature	2.8 ° C (0 to 15 Degree)
Optical Path length	0.65
Waster & Water Sensor	Working Properly
Threshold value	±34000 (≥25,000)
Valve & Motor	Working Properly
Reagent Dispensing Volume	In range (0 to 150 ul)
Power Supply and Earthing	230 Volts and Grounding less then 5 V
CV-Kinetic/End point/two Point	CV- 1.77% /2.42% /2.80%
SD-Kinetic/End point/two Point	SD- 1.15/0.39/0.69
Mean-Kinetic/End point/two Point	Mean- 97.55/14.34/24.79
Hardware Check-Functional Test	OK5415152524141112
Light Quality Check	OK
Cuvette Absorbance	OK
Cuvette Blank Value	OK >33000
Incubation temp.	37.0 ° C
Room temp.	25.0 degree C

This Calibration Certificate is Valid Up to 07-Jun-2023.

Conclusion: All parameter are within range. The Machine is working properly. (As per Meril terms.)

Engineer Name: Mr. Arun Yadav

Designation: Service Engineer

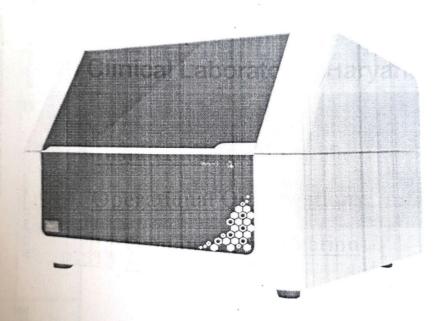


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Delhi Clinical Laboratory - Haryana

Installation Qualification
Operational Qualification
Performance Qualification



AutoQuant 200i
Fully Automated Biochemistry Analyzer

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AutoQuant 200i Fully Automated Biochemistry Analyzer

INSTALLATION QUALIFICATION

FOR

Delhi Clinical Laboratory - Haryana

INSTALLATION QUALIFICATION#01

MARKETED BY:

MERIL DIAGNOSTICS PVT. LIMITED

MUKTANAND MARG, CHALA

VAPI - 396191

INDIA

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- VIII. System Certification

Appendices

- i. IQ/OQ/PQ dot.
- ii. Sample page of the log book
- iii. Company Certificate

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I. APPROVAL OF THE IQ PROCEDURE:

Meril Diagnostics Pvt. Ltd. is responsible for the installation of the Fully Automatic Biochemistry Analyzer, Merilyzer - AutoQuant 200i, Sr. No. AQ-050974 at Delhi Clinical Laboratory - Haryana as per the attached protocol.

Protocol Performed By: Meril Diagnostics Pvt. Ltd. Representative

Name: Mr. Arun Yadav

Title: INSTALLATION QUALIFICATION

Company: MERIL DIAGNOSTICS PVT. LIMITED

Signature:

Date: 07-Jun-2022

Validation Team from CPU:

Name: Mr. Rahul Saini

Title: DRSM - Technical & Scientific Support

Department: Applications & Scientific Support

Date: 07-Jun-2022

Customer Authorizations:

Name: Aunt

Signature:

Title

Date: 02/24 2021

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II. INSTRUCTIONS

This document is to be completed at the time is shifted to its current location (new) and set up for operation.

- 1. An authorized Meril Diagnostics representative will check the system and enter the specific data as outlined in the appropriate Installation Qualification.
- 2. Employees of (customer) Delhi Clinical Laboratory Haryanawill verify each result and sign in the last page. The members of the validation will carry this out.
- 3. All deviation from the 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.
- 4. This document propriety information and is in no way to be copied, photographed or duplicated in any way without expressed authorization from Meril Diagnostics Pvt. Limited.

Validation Team:

Name: Mr. Rahul Saini

Designation: DRSM – Technical & Scientific Support

Signature

Date: 07-Jun-2022

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III. SCOPE

This installation Qualification protocol will be performed on the Fully Automatic Biochemistry Analyzer, Merilyzer - AutoQuant 200i, Sr. No. AQ-050974 located at Delhi Clinical Laboratory - Haryana. This protocol will define the documentation that will be used to evaluate the instrument installation in accordance with the manufacturer's specifications and intended use.

Successful completion of this protocol will verify that this instrument 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 condition 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.

Name: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature:

Date: 07-Jun-2022

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IV. ANCILLARY INFORMATION.

a. Certificate of Purchase Order Compliance

Verified By:

Designation: DPSM – Technical & Scientific Support

Signature:

Date: 07-Jun-2022





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b. Utilities

Sr. No.	Utility	Verified by & Date
	Environmental conditions as per required	Mr. Arun Yadav
1.	(free from dust, ambient light & electrical, yes / no magnetic interference)	Date: 07-Jun-2022
2.	Adequate space for installation: (Minimum mm 600 X 450 X 400) yes / no	YES
	Electrical Outlets:	YES
3.	Actual voltage on site [230VAC] yes / no	

c. The instrument has been checked for the following:

Sr. No.	Verification	Verified by & Date
1.	Instrument is identified yes / no	YES
2.	Manufacturer's specifications are included yes / no	YES
3.	Accessories / consumables are listed yes / no	YES
4.	Equipment manual from the manufacturer yes / no	YES
.5.	Manufacturer Certificate of Compliance is attached yes / no	YES

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Validation Team:

Name: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature:

Date: 07-Jun-2022

V. INSTALLATION QUALIFICATION

a. Equipment Description

The Automated Biochemistry Analyzer is a walk away system with simultaneous processing clinical chemistry samples. The data files created can be printed in report form or stored as data files for a variety of clinical chemistry-based applications.

•	Verified By	Date
Instrument Identification		
Equipment Name: Automated Biochemistry Analyzer		
Model : AutoQuant 200i		
Manufacturer: Meril Diagnostics Pvt. Ltd. India		
Marketed By: MERIL DIAGNOSTICS PVT. LIMITED	Mr. Arun Yadav	07-Jun-
Equipment # : Biochemistry Analyzer		2022
Serial Number : AQ-050974		
Size: 548 X 422 X 383 (mm)		
Power: AC 230 V		

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Name: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature:

Date: 07-Jun-2022

b. Accessories/Consumables

The following accessories were supplied with the instrument. Check 'verified by' in case they are found to be in order.

Description	Quantity	Verified by	Date
User's manual	1		
Application Software	1		
CPU+Monitor+Keyboard+Mouse+Speakers+Printer	. 1 ,		
Reagent Vials (20 ml)	50		
Distilled Water Can	1		
Waste Can	1	Mr. Arun	07-Jun-
Sample Cups	200	Yadav	2022
RS 232 Cable	1		
RS 232 to USB Cable	1		
Sample Racks	1		
Reagent Rack	1		
Probe Cleaning Wire	1		

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D.W & Waste Tubings	2	
Sample Probe	1	
Power Cords	1	

Validation Team:

Name: Mr. Arun Yadav

Signature

Designation: DRSM

Date: 07-Jun-2022

C. List of Manuals, Certificates and Drawings

Meril Diagnostics Pvt. Ltd. provides the following with the instrument.

1. Operator's/User's manual for AutoQuant 200i.

D. Change Control Procedure

The instrument will not be altered, enhanced or substituted for another system until a formal change Control Authorization is approved from Meril Diagnostics Pvt. Limited.

E. Maintenance

The instrument listed within this document will placed under the control of purchasing / contracted institution with respect to proper maintenance procedures as detailed in the operations manual. The maintenance procedures will be filed separately.

A trained analyst using the manuals provided with the instrumentation can perform simple maintenance. Upon expiration of the warranty period Meril Diagnostics offers several level of maintenance agreements and performance testing services to assist you in maintaining GLP/GMP compliance. Containing your local representative and requesting the additional service Agreement can supply additional information.

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F. Spare Parts

Meril Diagnostics Pvt. Ltd. strongly recommends the end user maintain a basic of consumable parts onsite to minimize down time due to minor failures. They have provided the list of such consumable parts.

For RRC, maintenance will be taken care as per contractual agreement.

Validation Team:

Name: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature:

Date: 07-Jun-2022

VI. INSTALLATION PROCEDURE:

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

1. Installation of Hardware

Follow the instructions mentioned in section 1 of the operator's manual for installation of the hardware.

2. Installation of Software

(Pre installed software is provided with the system.)

3. Installation of Printer

· Follow the instructions mentioned in Setup Guide of HP color ink jet printer.

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Validation Team:

Name: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature.

Date: 07-Jun-2022

VII. COMMENTS

Name: Mr. Rahul Saini

Designation; DRSM - Technical & Scientific Support

Signature:/

Date: 07-Jun-2022

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VIII. SYSTEM CERTIFICATION

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

Protocol Performed By: Meril Diagnostics Pvt. Ltd. Representative

Name: Mr. Arun Yadav

Title: INSTALLATION QUALIFICATION

Company: MERIL DIAGNOSTICS PVT. LIMITED

Signature:

Date: 07-Jun-2022

Customer Authorizations:

Name: Aud Signature:

Title:

Date: 07/Jun/2012

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AutoQuant 200i Fully Automated Biochemistry Analyzer

OPERATIONAL QUALIFICATION

FOR

Delhi Clinical Laboratory - Haryana

OPERATIONAL QUALIFICATION#02

MARKETED BY:

MERIL DIAGNOSTICS PVT. LIMITED

MUKTANAND MARG, CHALA

VAPI - 396191

INDIA

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I. APPROVAL OF THE OQ PROCEDURE:

Meril Diagnostics Pvt. Ltd. is responsible for the installation of the Fully Automatic Biochemistry Analyzer, Merilyzer - AutoQuant 200i, Sr. No. AQ-050974 at Delhi Clinical Laboratory - Haryana as per the attached protocol.

Protocol Performed By: Meril Diagnostics Pvt. Ltd. Representative

Name:

Mr. Arun Yadav

Signature:

Title: OPERATIONAL QUALIFICATION

Date: 07-Jun-2022

Company: MERIL DIAGNOSTICS PVT. LTD.

Validation Team from CPU:

Name: Mr. Rahul Saini

Title: DRSM - Technical & Scientific Support

Date: 07-Jun-2022

Department: MERIL DIAGNOSTICS PVT. LTD

Customer Authorizations:

Name: Amit

Signature: Avul

Date: 07/24/22

Title:

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II. INSTRUCTIONS

 An authorized Meril Diagnostics Pvt. Ltd. representative will check each module and enter the specific data as outlined in the appropriate Operational Qualification. Each result will be noted and dated.

2. Employees of (customer) Delhi Clinical Laboratory - Haryanawill verify each result and sign in the last page. The members of the validation will

carry this out.

 All deviation from the acceptance criteria detailed in this document will be noted under COMMENTS section at the end 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.

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.

Validation Team:

Name: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature:

Date: 07-Jun-2022

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II. SCOPE

This operational Qualification protocol will be performed on the Fully Automatic Biochemistry Analyzer, Merilyzer AutoQuant 200i, Sr. No. AQ-050974 located at Delhi Clinical Laboratory - Haryana. This protocol will define the documentation that will be used to evaluate the instrument operation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that this instrument has been installed in accordance with the intended usage.

Trained, knowledgeable personnel will perform qualification studies.

Any exceptional condition 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: Mr. Rahul Saini

Designation: DRSM - Technical & Scientific Support

Signature:

Date: 07-Jun-2022

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II. OPERATIONAL QUALIFICATION

A. Instrument Identification Verified Date

- 1. Model Name AutoQuant 200i
- 2. Serial Number AQ-050974
- B. Following is the list of test performed and verified

Test No.	Test Name	Test Purpose	Verified Date
1.	Assay Programming	Programming a test as per the kit insert	
2.	Worklist Programming	In order to set up for a RUN	
3.	Initialize	To do the initialization of daily activity	07-Jun-2022
4.	Print	Printing Of Results	
5.	End of Work	For maintenance of the instrument	

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature:

Date: 07-Jun-2022

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C. Operational Testing

Test I

Test Name: Assay Programming

Purpose: To programme the specified test

Procedure:

- 1. Open AutoQuant 200i Operating Software.
- 2. Click on Parameter button
- 3. Entertest name, test code, define Method, Filter and other details menu.
- 4. Define Reference range in Reference Range window.
- 5. Define Calibrator in Calibration Window.
- 6. Input Control values in QC window.
- 7. Input Calculation formula in calculation item setting window.
- 8. Click on Save to save the protocol.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature:

Date: 07-Jun-2022

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D. Creating & Processing a Worklist

Test II

Purpose: In order to set up for a worklist of same type of multiple tests to be run together.

Method:

- 1. Click on Schedule button.
- 2. Click on sample button.
- 3: Select test to be processed.
- 4. Input patient information.
- 5. Click on Add and Modify button,
- 6. Click ID++ to programme next sample,
- 7. Put samples on designated positions,
- 8. Click Save then Test button to start processing.
- 9. Refer Operators manual section 4 for more details.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature: Anus

Date: 07-Jun-2022

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E. Initialization

Test III

Test Name: Initialization

Purpose: In order to check the proper working of the instrument

Method:

1. The machine performs a self-test at the time of initialization to check if all the mechanics of the machine are working OK.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature: ATIM

Date: 07-Jun-2022

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G. OPERATIONAL PROCEDURE

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. Arun Yadavwho is certified by Meril Diagnostics Pvt. Ltd. Has conducted the training.

Sr. No.	Training Program	Initials	Date
1.	Instrument Setup	OK	07-Jun-2022
2.	System operation	OK	07-Jun-2022
3.	Basic troubleshooting	OK	07-Jun-2022
4.	Routine Maintenance	OK	07-Jun-2022

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 filled as indicated below:

Sr. No.	Operators .	Location	Initials	Date
1.		Delhi Clinical	OK	07-Jun-2022
2.		Laboratory - Haryana	OK	

Validation Team:

Name: Mr. Arun Yadav Designation: Sr. Exe. Application Support

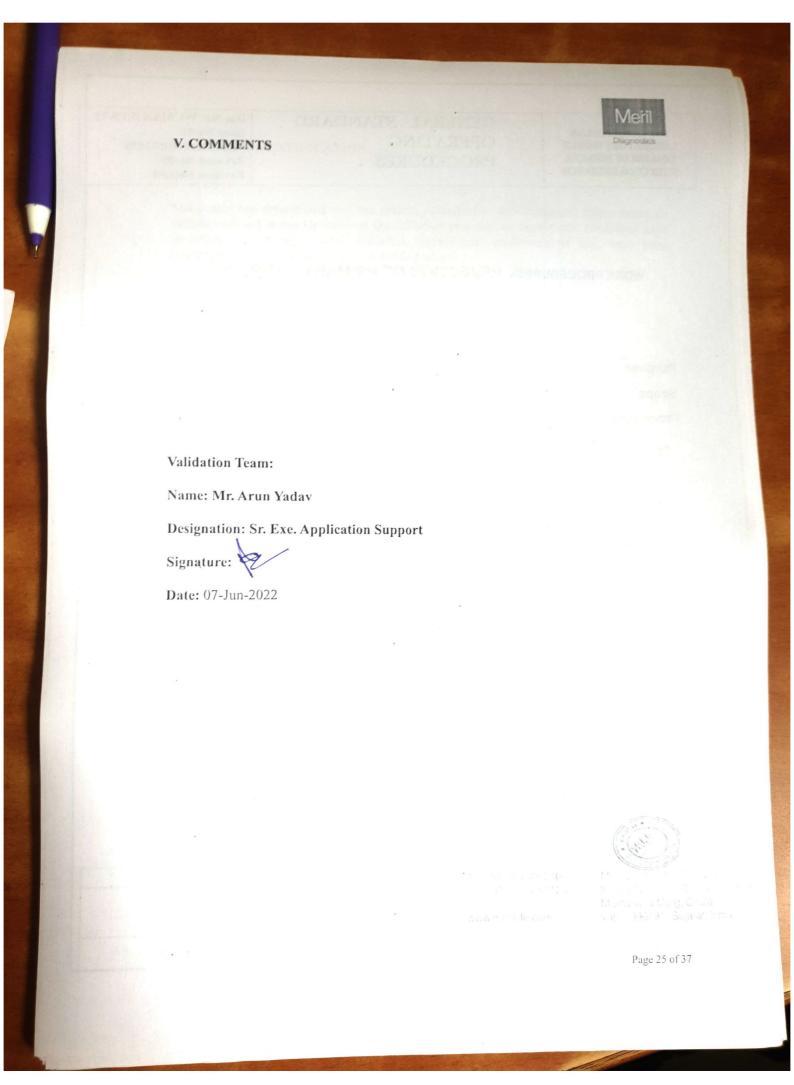
Signature: Date: 07-Jun-2022

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VI. 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 identified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for specified usage.

Protocol Performed By: Meril Diagnostics Pvt. Ltd. Representative

Name: Mr. Arun Yadav

Signature:

Title: OPERATIONAL QUALIFICATION

Date: 07-Jun-2022

Company: MERIL DIAGNOSTICS PVT. LIMITED

Customer Authorizations:

Name: Amit

Title:

Signature: Date: OMD www Man

Site:

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AutoQuant 200i Fully Automated Biochemistry Analyzer

PERFORMANCE QUALIFICATION

FOR

Delhi Clinical Laboratory - Haryana

PERFORMANCE QUALIFICATION#01

MARKETED BY:

MERIL DIAGNOSTICS PVT. LIMITED

MUKTANAND MARG, CHALA

VAPI - 396191

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- VI. System Certification

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APPROVAL OF THE PQ PROCEDURE: I.

Meril Diagnostics Pvt. Ltd. is responsible for the installation of the Fully Automatic Biochemistry Analyzer, Merilyzer - AutoQuant 200i, Sr. No.AQ-050974 at Delhi Clinical Laboratory - Haryana as per the attached protocol.

Protocol Performed By: Meril Diagnostics Pvt. Ltd. Representative

Name: Mr. Arun Yadav

Signature:

Title: OPERATIONAL QUALIFICATION

Date: 07-Jun-2022

Company: MERIL DIAGNOSTICS PVT. LTD.

Validation Team from CPU:

Name: Mr. Rahul Saini

Title: DRSM - Technical & Scientific Support

Department: MERIL DIAGNOSTICS PVT. LTD

Signature.

Date: 07-Jun-2022

Customer Authorizations:

Name: Amit

Title:

Site:

Signature: Date: 2/24/2

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II. INSTRUCTIONS

 An authorized Meril Diagnostics Pvt. Ltd. representative will check for the performance of the system and enter the specific data as outlined in the appropriate Performance Qualification.

Performance checks on a regular basis described in the Further Performance Checks (vide-infra) will be responsibility of the customer's

personnel.

3. Employees of (customer) Delhi Clinical Laboratory - Haryanawill verify each result and sign in the last page. The members of the validation will

carry this out.

4. All deviation from the acceptance criteria detailed in this document will be noted under COMMENTS section at the end of PQ section. All resolution to such problems will also be noted in the COMMENTS section and must be resolved prior to issuance of a SYSTEM CERTIFICATION.

 Any test 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.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature: Amy

Date: 07-Jun-2022

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III. SCOPE

This Performance Qualification protocol will be performed on the Fully Automatic Biochemistry Analyzer, Merilyzer AutoQuant 200i, Sr. No. AQ-050974 located at Delhi Clinical Laboratory - Haryana. This protocol will define the documentation that will be used to evaluate the instrument operation 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 condition 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: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature:

Date: 07-Jun-2022

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IV. PERFORMANCE QUALIFICATION

A. Instrument Identification Verified Date

- 1. Model Name AutoQuant 200i.
- 2. Serial Number AQ-050974

B. Following is the list of test performed and verified

Test No. Test Name Test Purpose Verified Date

01: SELF TEST: In order to check the proper working of the instrument.

02: DAILY MAINTENANCE: To eliminate unexpected errors.

03: RUN A TEST: To check the instrument performance.

04. CARRY OVER STUDY: To check carry over possibilities.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

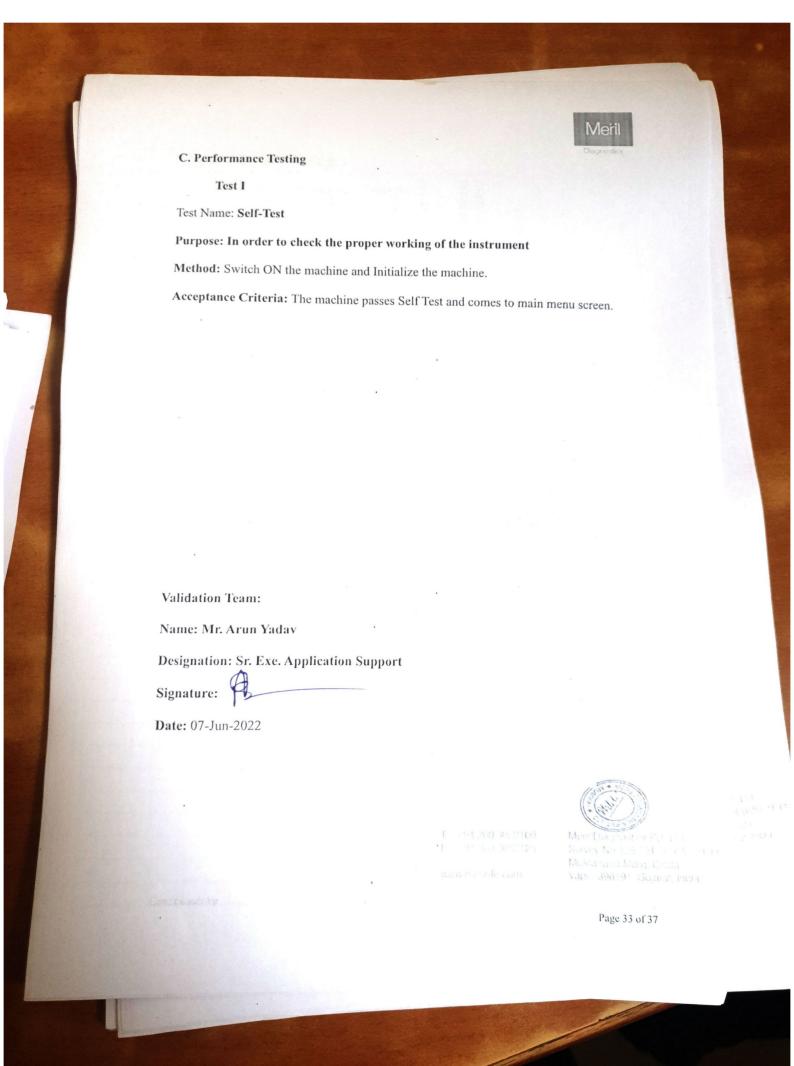
Signature:

Date: 07-Jun-2022

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CARRY OVER CHECK:

Validation of Glucose/Urea/SGOT test run:

Replicates processed: 20

Number of Test & Samples processed: 10

Carry over found during performance check: YES / NO

(Data Sheet Attached for reference)

PARAMETER: PASS / FAIL

During sample analysis run control samples with each test run. Validate test run as per the criteria stated in the respective kit inserts.

Accept the sample results only on meeting of the validation criteria.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature:

Date: 07-Jun-2022

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Validation of Instrument Performance:

Validation Criteria	Result obtained	Criteria pass/fail	Verified by
Glucose Test	Ok.	Pass	
Urea Test	Ok	Pass	
SGOT Test	Ok	Pass	

PARAMETER: PASS / FAIL

During sample analysis run control samples with each test run. Validate test run as per the criteria stated in the respective kit inserts.

Accept the sample results only on meeting of the validation criteria.

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature:

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Date: 07-Jun-2022

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V. COMMENTS

Validation Team:

Name: Mr. Arun Yadav

Designation: Sr. Exe. Application Support

Signature:

Date: 07-Jun-2022

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VI. 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 identified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for specified usage.

Protocol Performed By: Meril Diagnostics Pvt. Ltd. Representative

Name: Mr. Arun Yadav

Title: PERFORMANCE QUALIFICATION

Company: MERIL DIAGNOSCTICS PVT. LIMITED

Customer Authorizations:

Name: Avist

Title:

Site:

Signature:

Date:

Signature:

Date: 07-Jun-2022

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No.

From:

07/20/2022

To:

07/20/2022

QC lot

Result

Run date

Flag

QC range

ALB CREAT TBIL TBIL TBIL TG CHOL TG	Test name
052206 052206 052206 052206 052206 052206 052206 052206 052206	QC lot
3.79 43.22 1.22 1.61 5.85 5.68 80.58 133.41 110.33	Result
07/20/2022::07:42:14 07/20/2022::07:43:00 07/20/2022::07:44:20 07/20/2022::07:46:29 07/20/2022::07:46:29 07/20/2022::07:49:41 07/20/2022::07:49:51 07/20/2022::07:50:16 07/20/2022::07:50:54	Run date
Normal Normal Normal Normal Normal Normal Normal Normal	Flag
3.29-4.01 37.35-53.85 1.04-1.46 1.20-2.24 4.65-6.55 5.15-6.27 7.60-109.40 108.02-152.28 91.30-128.70	QC range

Concentration

Scanned with CamScant

	No.	From
ALB UREA CREAT TBIL UA GLUC TP CHOL TG	Test name	07/20/2022
MB052204 MB052204 MB052204 MB052204 MB052204 MB052204 MB052204 MB052204 MB052204 MB052204	QC lot	022
4.19 118.99 3.43 4.76 8.59 217.59 6.50 155.86 169.89	Result	To: 07/2
07/20/2022::09:16:56 07/20/2022::09:17:58 07/20/2022::09:19:16 07/20/2022::09:20:47 07/20/2022::09:21:00 07/20/2022::09:24:34 07/20/2022::09:24:34 07/20/2022::09:24:54 07/20/2022::09:24:54	Run date	07/20/2022 Concentration:
Normal <-1SD Normal Normal Normal <-1SD Normal Normal	Flag	
3.69-4.51 112.05-157.95 2.66-3.74 3.43-6.37 6.85-9.65 199.20-280.80 5.76-7.04 132.40-187.60 146.89-207.11	QC range Scan	High

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with CamScanr