



OPERATIONAL QUALIFICATION

For

FULLY AUTOMATED CLINICAL CHEMISTRY ANALYZER

MODEL: MISPA NANO

AGAPPE DIAGNOSTICS LTD.

ADL/BO/SER/0021/21-22

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN ISO 13485:2016 CERTIFIED COMPANY] CIN: U24239MH1998PLC115413

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AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN 150 13485:2016 CERTIFIED COMPANY] CIN: UZ4Z39MH1998PLC115413

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APPROVAL OF THE OPERATIONAL QUALIFICATION PROCEDURE

Both POOJA DIAGNOSTICS, BANGALORE and AGAPPE DIAGNOSTICS LTD. are jointly responsible for the installation of MISPA NANO with serial number XJ 2100579 at "POOJA DIAGNOSTICS, NO:8, ABOVE CANARA BANK, 80 FEET ROAD, CHANDRA LAYOUT, BANGALORE" as per the attached OPERATIONAL QUALIFICATION protocol.



Protocol Performed By: Representative of AGAPPE DIAGNOSTICS LTD.

Name	:	DANI DAVIS V	Signature	2:
Designation	:	Engineer - Customer Service	Date	: 19/03/2012
Company	:	AGAPPE DIAGNOSTICS LTD.		

Validation Team from POOJA DIAGNOSTICS, BANGALORE

Name	:	Signature	:
Designation	:	Date	:
Department	:		

Customer Authorizations:

Name:

: OPERATIONAL QUALIFICATION Title Signature

Site Date

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SURGING INNOV





An authorized AGAPPE DIAGNOSTICS LTD representative will check and enter the specific data as outlined in the **OPERATIONAL QUALIFICATION**. Each result will be noted and dated.

2. ALL deviations from the acceptance criteria detailed in this document will be noted in the 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.

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III. SCOPE

This Operational Qualification protocol will be performed on the MISPA NANO at POOJA DIAGNOSTICS, BANGALORE. This Installation protocol will define the documentation that will be used to evaluate the instruments installation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been installed in accordance with the intended usage. Trained, knowledgeable personnel will perform qualification studies. Any exceptional conditions 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.

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IV. OPERATIONAL QUALIFICATION



Verified Date: 19/03/2012

nstrument Identification

SURGING THROVATION Model Name : MISPA NANO

> 2. Serial Number : XJ 2100579

B. Following is a list of tests to be performed and verified:

Test No.	Test Name	Test purpose	Verified By and date
01	Start up	To make the equipment ready for operation	DANI DAVIS V
02	Daily maintenance	To clean appropriate modules	DANI DAVIS V
03	Calibration	To calibrate the system	DANI DAVIS V
04	QC check	To confirm that the system is calibrated and working within specifications	DANI DAVIS V
05	Reproducibility check	To check the precision [CV %] after calibration	DANI DAVIS V
06	Sample programming and Analysis	To run the samples	DANI DAVIS V
07	Shut down procedure	To shut down the system	DANI DAVIS V

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Test 01: Starting the system

Purpose: To make the instrument READY for operation

Summary:

Instrument checks functioning of different parts of the instrument automatically. If there is an error code, initialize the system and follow corrective action instructions provided for the error message.

Procedure:

- Wait for the instrument to get ready after initialization
- Check the room temperature and switch on the Air Conditioner
- Check the UPS.
- Switch on the MISPA NANO by pressing the main switch, then switch on the computer and then the system power
- Double click the analyzer icon to initialize the system software
- Input the password and do as prompted, the system menu pops up if start up is finished
- If not, initialize by again after solving the error displayed
- Follow instructions provided for the error message

Acceptance criteria: System to display READY status

PARAMETER PASS FAIL

Parameter values for verification: "READY" on Status Area

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SURGING INNO





urpose: To clean appropriate modules so as per the daily maintenance protocol

SERVING MARMethod:

Refer detailed procedure for Daily Maintenance

S No.	Activity	Done by	Date
01	Empty waste container	DANI DAVIS V	19/03/2012
02	Check Wash solutions	DANI DAVIS V	19/03/2012
03	Check system water	DANI DAVIS V	19/03/2012
04	Check Reagents	DANI DAVIS V	19/03/2012
05	Clean Reagent Block	DANI DAVIS V	19/03/2012
06	Clean out side area	DANI DAVIS V	19/03/2012
07	Load supplies and remove outdated and empty reagents	DANI DAVIS V	19/03/2012
08	Check main menu screen	DANI DAVIS V	19/03/2012
09	Perform Quality Control	DANI DAVIS V	19/03/2012

Acceptance criteria: System should be "Ready" after daily maintenance without any error

PARAMETER FAIL PASS

Parameter values for verification: System found "Ready" after daily maintenance

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Purpose: To calibrate the system

Procedure:

S No	Activity	Done By	Date
01	Preparation of the cal material	DANI DAVIS V	19/03/2012
02	Performing Calibration with calibration programming screen	DANI DAVIS V	19/03/2012

Acceptance criteria: Calibration data shows concordance OD values in triplicate measurement

PARAMETER PASS FAIL

Parameter values for verification : No error message in the printout

Test 04: QC check

Purpose: To confirm that systems, reagents and consumables are acceptable & working within specifications for each assay used.

Procedure:

S No.	Activity	Done By	Date
01	Preparing Biochemistry control material	DANI DAVIS V	19/03/2012
02	Creating QC file	DANI DAVIS V	19/03/2012
03	QC sample programming and analysis	DANI DAVIS V	19/03/2012

Acceptance criteria: QC results within specified limits mentioned on the control product insert

PARAMETER PASS FAIL

Parameter values for verification: QC values within ± 2SD

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Purpose: To check the reproducibility of instrument

SURGING INNOVAL SERVING READELING

S No.	Activity	Done By	Date
01	Preparing control material/ sample	DANI DAVIS V	19/03/2012
02	Running triplicates	DANI DAVIS V	19/03/2012

Acceptance criteria: Results CV within specified limits

FAIL PARAMETER PASS

Parameter values for verification: CV% within the limits

Test 06: Sample programming and Analysis

Purpose: To run the samples

Procedure:

S No.	Activity	Done By	Date
01	Preparing and Processing of samples	DANI DAVIS V	19/03/2012
02	Programming samples	DANI DAVIS V	19/03/2012
03	Aspirating the samples	DANI DAVIS V	19/03/2012
04	Viewing samples in process	DANI DAVIS V	19/03/2012
05	Review results: Monitoring results	DANI DAVIS V	19/03/2012

Acceptance criteria: Samples Analysis without any error

PARAMETER PASS FAIL

Parameter values for verification: Sample analysis without any error

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Surging Purpose: To shut down the system

Procedure:

S No.	Activity	Done By	Date
01	Preparing the system for shut down	DANI DAVIS V	19/03/2012
02	Following the on screen instructions	DANI DAVIS V	19/03/2012
03	Switch off the instrument when prompted	DANI DAVIS V	19/03/2012

Acceptance criteria: Shut down without any error

PARAMETER PASS FAIL

Parameter values for verification: Shut down without any error

V. OPERATIONAL PROCEDURE

Certificate of Training

1. Technician Training

This certifies that the technicians have received basic user training in the following categories for the system described in this Operational Qualification.

S No.	Training program	Initials	Date
1	Instrument Setup		
2	System Operation		
3	Basic trouble shooting and Maintenance		

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2. Operator Training

The users responsible for the operation of this equipment have been trained in the proper usage of the system. Training focused on the basic operation and maintenance of the system.

S No.	Operators	Department	Initials	Date

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VI. COMMENTS

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VII. SYSTEM CERTIFICATION



Study data has determined that the system described in this document either meets all

criteria outline in this Operational Qualification Protocol, or exceptional conditions have been

identified and documentation included. Exceptional conditions, if any, have been addressed.

The system is ready for Performance Qualification.



Report Performed By: AGAPPE DIAGNOSTICS LTD. Representative

: DANI DAVIS V Name

: Engineer - Customer Service Signature :

Company : AGAPPE DIAGNOSTICS LTD. Date

Customer Authorizations: POOJA DIAGNOSTICS, BANGALORE

Name

Designation Signature:

Title : OPERATIONAL QUALIFICATION Date

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INSTALLATION QUALIFICATION

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FULLY AUTOMATED CLINICAL CHEMISTRY ANALYZER

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I. APPROVAL OF THE INSTALLATION QUALIFICATION PROCEDURE

Both POOJA DIAGNOSTICS, BANGALORE and AGAPPE DIAGNOSTICS LTD. are jointly responsible for the installation of MISPA NANO with serial number XJ 2100579 at "POOJA DIAGNOSTICS , NO:8, ABOVE CANARA BANK, 80 FEET ROAD, CHANDRA LAYOUT, BANGALORE" as per the attached Installation Qualification protocol.



Protocol Performed By: Representative of AGAPPE DIAGNOSTICS LTD.

Name	:	DANI DAVIS V	Signatur	e:
Title	:	Engineer - Customer Service	Date	: 19/03/2012
Company	:	AGAPPE DIAGNOSTICS LTD.		

Validation Team from POOJA DIAGNOSTICS, BANGALORE

Name	:	Signatur	e:
Designation	:	Date	:
Department	:		

Customer Authorizations:

Name:

Title : INSTALLATION QUALIFICATION Signature

Site Date

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN ISO 13485:2016 CERTIFIED COMPANY] CIN: U24239MH1998PLC115413

CORPORATE OFFICE / REAGENT PLANT Agappe Hills, Pattimattom (PO), Dist. Ernakulam, Kerala - 683 562, India. Tel: + 91 484 286 7000 | Email: agappe@agappe.in

MUMBAI [REGISTERED OFFICE] 401 & 402, 4" Floor, Jaisingh Business Centre, 119, Sahar Road, Parsiwada, Andheri (East), Mumbai - 400 099, India. Tel: +91 22 4300 8000 | Email: mumbaioffice@agappe.in

EQUIPMENT PLANT X/588-CB, Block No. 32, KINFRA Small Industrial Park, Nellad, Cochin, Kerala, India - 686 721. Tel: +91 484 276 7477.

DELHI OFFICE DSM 540, 5° Floor, DLF Tower, Shivaji Marg, New Delhi - 110 015, India. Tel: +91 11 4558 8416 | Email; delhioffice@agappe.in KOLKATA OFFICE 406. Merlin Matrix, Plot No-10, Block-DN, Sector V. Salt Lake City, Kolkata - 700 091. Tel: +91 33 4003 0451 | Email: kolkattaoffice@agappe.in





II. INSTRUCTIONS

- 1. An authorized AGAPPE DIAGNOSTICS LTD. representative will check and enter the specific data as outlined in the Installation Qualification. Each result will be noted and dated.
- 2. The concerned employees of POOJA DIAGNOSTICS, BANGALORE will verify each result and sign in each page. The member of the validation team will carry this out.
- 3. ALL deviations from the acceptance criteria detailed in this document will be noted in the COMMENTS section at the end of the IQ 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.

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN 150 13485:2016 CERTIFIED COMPANY] CIN: UZ4Z39MH1998PLC115413

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surgus and This Installation Qualification protocol will be performed on the MISPA NANO at POOJA DIAGNOSTICS, BANGALORE. This Installation protocol will define the documentation that will be used to evaluate the instruments installation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been installed in accordance with the intended usage.

Trained, knowledgeable personnel will perform qualification studies. Any exceptional conditions 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.

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN ISO 13485:2016 CERTIFIED COMPANY] CIN: UZ4239MH1998PLC115413

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CRISSRATING #





A. Instrument Identification

Verified Date:

1. Model Name : MISPA NANO

2. Serial Number : XJ 2100579

B. Following is a list of accessories /consumables verified:

S No.	Component	Present (Yes/No)	Verified By	Comments
01	Analyzer Main unit	Yes	DANI DAVIS V	
02	Computer	Yes	DANI DAVIS V	
03	Printer	Yes	DANI DAVIS V	
04	RS232 Connector cable	Yes	DANI DAVIS V	
05	Power cord	Yes	DANI DAVIS V	
06	Waste can	Yes	DANI DAVIS V	
07	Water can	Yes	DANI DAVIS V	
08	Water connector tube	Yes	DANI DAVIS V	
09	Waste connector tube	Yes	DANI DAVIS V	
10	Water pre filter	Yes	DANI DAVIS V	
11	Probe assembly	Yes	DANI DAVIS V	
12	Mixer assembly	Yes	DANI DAVIS V	
13	Reagent tray	Yes	DANI DAVIS V	
14	Cuvette blocks	Yes	DANI DAVIS V	
15	Reagent bottles	Yes	DANI DAVIS V	

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Purpose: To make sure that the instrument is received with all the major components necessary for operation

S No.	Component	(Yes/No)	Verified By	Comments
1	Major components and accessories are present	Yes	DANI DAVIS V	
2	There is no physical damage to the components	Yes	DANI DAVIS V	
3	Ambient temperature is available	Yes	DANI DAVIS V	
4	Instrument is installed in the table leveled properly	Yes	DANI DAVIS V	
5	Power supply is correct	Yes	DANI DAVIS V	
6	Electric connections are tight, weatherproof & earthed	Yes	DANI DAVIS V	
7	Analyzer unit installed as per the manufacturers recommendations	Yes	DANI DAVIS V	

Summary:

The information is recorded against each data and the deviations if any is justified / explained properly.

Acceptance criteria:

PASS FAIL PARAMETER

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN 150 13485:2016 CERTIFIED COMPANY] CIN: UZ4Z39MH1998PLC115413





STREETING D. Instrument Installation

Date of Installation : 19/03/2012

Installed by : DANI DAVIS V

S No.	Parameter	Done by	Comments
01	Installation of the main unit	DANI DAVIS V	
02	Installation of the computer system	DANI DAVIS V	
03	Installation of the printer	DANI DAVIS V	
04	Connecting the waste tubing	DANI DAVIS V	
05	Connecting the system water tubing	DANI DAVIS V	
06	Installing the reagent tray	DANI DAVIS V	
07	Installation of the probe	DANI DAVIS V	
08	Installation of the mixer	DANI DAVIS V	
09	Installing the cuvettes	DANI DAVIS V	

Acceptance criteria: System should be "Ready" after daily maintenance without any error

PARAMETER PASS FAIL

Parameter values for verification: System found "Ready" after daily maintenance

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urpose: To check the cuvette blank OD at different wavelength

SURGING INN SERVING MAJProcedure:

S No.	Activity	Done By	Date
01	Checking the Cell blank	DANI DAVIS V	19/03/2012
02	340 nm	DANI DAVIS V	19/03/2012
03	405 nm	DANI DAVIS V	19/03/2012
04	450 nm	DANI DAVIS V	19/03/2012
05	510 nm	DANI DAVIS V	19/03/2012
06	546 nm	DANI DAVIS V	19/03/2012
07	578 nm	DANI DAVIS V	19/03/2012
08	630 nm	DANI DAVIS V	19/03/2012
09	670 nm	DANI DAVIS V	19/03/2012

Acceptance criteria:

- No error Messages displayed
- All Cuvettes should show acceptance

PARAMETER PASS FAIL

Parameter values for verification: No Error Messages

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urpose: To check the internal tubing's and flow of liquids

SURGING INNOVATION SERVING MANUSTRING

. 10	S No Activity		Done By	Date	
	01	Do wash using the maintenance screen	DANI DAVIS V	19/03/2012	

Acceptance criteria:

- No error message or air bubbles in the internal tubing's
- All the dilutor working well without air bubbles / leakage

PARAMETER PASS **FAIL**

Parameter values for verification: No Error Messages

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V. COMMENTS

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

DIAGNOS CONTROL DIAGNOS CONTROL DE STATEMENTO DE STATEMENTO.

Report Performed By: AGAPPE DIAGNOSTICS LTD. Representative

Name : DANI DAVIS V

Designation : Engineer - Customer Service Signature :

Company : AGAPPE DIAGNOSTICS LTD. Date :

Customer Authorizations: POOJA DIAGNOSTICS, BANGALORE

Name :

Designation : Signature :

Title : INSTALLATION QUALIFICATION Date :

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN ISO 13485:2016 CERTIFIED COMPANY] CIN: U24239MH1998PLC115413

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PERFORMANCE QUALIFICATION

For

FULLY AUTOMATED CLINICAL CHEMISTRY ANALYZER

MODEL: MISPA NANO

AGAPPE DIAGNOSTICS LTD.

ADL/BO/SER/0031/21-22

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN ISO 13485:2016 CERTIFIED COMPANY] CIN: U24239MH1998PLC115413

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APPROVAL OF THE PERFORMANCE QUALIFICATION PROCEDURE

Both POOJA DIAGNOSTICS, BANGALORE and AGAPPE DIAGNOSTICS LTD. are jointly responsible for the installation of MISPA NANO with serial number XJ 2100579 at "POOJA DIAGNOSTICS, NO:8, ABOVE CANARA BANK, 80 FEET ROAD, CHANDRA LAYOUT, **BANGALORE"** as per the attached PERFORMANCE Qualification protocol.



Protocol Performed By: Representative of AGAPPE DIAGNOSTICS LTD.

Name	:	DANI DAVIS V	Signature:	
Designation	:	Engineer - Customer Service	Date	: 19/03/2012
Company	:	AGAPPE DIAGNOSTICS LTD.		

Validation Team from POOJA DIAGNOSTICS, BANGALORE

Name	:	Signature	:
Designation	:	Date	:
Department	:		

Customer Authorizations:

Name:

: PERFORMANCE QUALIFICATION Title Signature

Site Date

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SURGING INNOV





An authorized AGAPPE DIAGNOSTICS LTD. representative will check and enter the specific data as outlined in the Performance Qualification. Each result will be noted and dated.

- 2. The concerned employees of POOJA DIAGNOSTICS, BANGALORE will verify each result and sign in each page. The member of the validation team will carry this out.
- 3. All deviations from the acceptance criteria detailed in this document will be noted in the COMMENTS section at the end of the PQ 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.

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III. SCOPE

This Performance Qualification protocol will be performed on the MISPA NANO at POOJA DIAGNOSTICS, BANGALORE. This Performance protocol will define the documentation that will be used to evaluate the instruments installation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been installed in accordance with the intended usage. Trained, knowledgeable personnel will perform qualification studies. Any exceptional conditions 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.

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Verified Date: 19/03/2012

IV. PERFORMANCE QUALIFICATION

A. <u>Instrument Identification</u>

1. Model Name : MISPA NANO

2. Serial Number : XJ 2100579

B. Following is a list of tests to be performed and verified:

Test No.	Test Name	Test purpose	Verified By and date
01	Start up	To make the equipment ready for operation	DANI DAVIS V
02	Daily maintenance	To clean appropriate modules	DANI DAVIS V
03	Cell blank	To check the cuvettes	DANI DAVIS V
04	Priming	To check the tubing's , and flow	DANI DAVIS V
05	Auto gain	To check the cuvette and photometry system	DANI DAVIS V
06	Calibration	To calibrate the system	DANI DAVIS V
07	QC check	To confirm that the system and reagents are acceptable and working within specifications	DANI DAVIS V
08	Reproducibility check	To check the precision [CV %]	DANI DAVIS V
09	Sample programming and Analysis	To run the samples	DANI DAVIS V
10	Shut down procedure	To shut down the system	DANI DAVIS V

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Test 01: Starting the system

Purpose: To make the instrument READY for operation

Summary:

Instrument checks functioning of different parts of the instrument automatically; if there is an error code, initialize the system and follow corrective action instructions provided for the error message.

Procedure:

- Wait for the instrument to get ready after initialization
- Check the room temperature and switch on the Air Conditioner
- Check the UPS.
- Switch on the MISPA NANO by pressing the main switch, then switch on the computer and then the system power
- Double click the analyzer icon to initialize the system software
- Input the password and do as prompted, the system menu pops up if start up is finished
- If not, initialize by again after solving the error displayed
- Follow instructions provided for the error message

Acceptance criteria: System to display READY status

PARAMETER PASS FAIL

Parameter values for verification: "READY" on Status Area

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN 150 13485:2016 CERTIFIED COMPANY] CIN: U24239MH1998PLC115413





Purpose: To clean appropriate modules so as per the daily maintenance protocol

Method:

Refer detailed procedure for Daily Maintenance

S No.	Activity	Done by	Date
01	Empty waste container	DANI DAVIS V	19/03/2012
02	Check Wash solutions	DANI DAVIS V	19/03/2012
03	Check system water	DANI DAVIS V	19/03/2012
04	Check Reagents	DANI DAVIS V	19/03/2012
05	Clean Reagent Block	DANI DAVIS V	19/03/2012
06	Clean out side area	DANI DAVIS V	19/03/2012
07	Load supplies and remove outdated and empty reagents	DANI DAVIS V	19/03/2012
08	Check main menu screen	DANI DAVIS V	19/03/2012
09	Perform Quality Control	DANI DAVIS V	19/03/2012

Acceptance criteria: System should be "Ready" after daily maintenance without any error

PARAMETER PASS FAIL

Parameter values for verification: System found "Ready" after daily maintenance

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KOLKATA OFFICE 406, Merlin Matrix, Plot No-10, Block-DN, Sector V. Salt Lake City, Kolkata - 700 091. Tel: +91 33 4003 0451 | Email: kolkattaoffice@agappe.in





Purpose: To check the cuvette blank OD at different wavelength

Procedure:

S No.	Activity	Done By	Date
01	Checking the Cell blank	DANI DAVIS V	19/03/2012
	340 nm	DANI DAVIS V	19/03/2012
	405 nm	DANI DAVIS V	19/03/2012
	450 nm	DANI DAVIS V	19/03/2012
	510 nm	DANI DAVIS V	19/03/2012
	546 nm	DANI DAVIS V	19/03/2012
	578 nm	DANI DAVIS V	19/03/2012
	630 nm	DANI DAVIS V	19/03/2012
	670 nm	DANI DAVIS V	19/03/2012

Acceptance criteria:

- No error Messages displayed
- All Cuvettes should show acceptance

PARAMETER PASS FAIL

Parameter values for verification: No Error Messages

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Purpose: To check the internal tubing's and flow of liquids

S No	Activity	Done By	Date
01	Do wash using the maintenance screen	DANI DAVIS V	19/03/2012

Acceptance criteria:

- No error message or air bubbles in the internal tubing's
- All the dilutor working well without air bubbles / leakage

PARAMETER PASS **FAIL**

Parameter values for verification: No Error Messages

Test 05: Auto gain

Purpose: To Check the photometry system

Procedure:

S No.	Activity	Done By	Date
01	Performing the filter OD checking	DANI DAVIS V	19/03/2012

Acceptance criteria: Data shows OD values in the acceptable range

PARAMETER PASS FAIL

Parameter values for verification : No error message

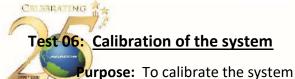
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SURGING INNO SERVING MAIProcedure:

S No.	Activity	Done By	Date
01	Preparation of the Calibration material *	DANI DAVIS V	19/03/2012
02	Performing Calibration with calibration programming screen	DANI DAVIS V	19/03/2012

^{*}Traceability of the calibrator used is attached

Acceptance criteria: Calibration data shows concordance OD values in triplicate measurement

PARAMETER PASS FAIL

Parameter values for verification : No error message in the printout

Test 07: QC check

Purpose: To confirm that systems, reagents and consumables are acceptable & working within specifications for each assay used.

Procedure:

S No.	Activity	Done By	Date	
01	Preparing Biochemistry control material	DANI DAVIS V	19/03/2012	
02	Creating QC file	DANI DAVIS V	19/03/2012	
03	QC sample programming and analysis	DANI DAVIS V	19/03/2012	

Acceptance criteria: QC results within specified limits mentioned on the control product insert

PARAMETER PASS FAIL

Parameter values for verification: QC values within ± 2SD

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Purpose: To check the reproducibility of instrument

S No.	Activity	Done By	Date
01	Preparing control material/ sample	DANI DAVIS V	19/03/2012
02	Running triplicates	DANI DAVIS V	19/03/2012

Acceptance criteria: Results CV within specified limits

PARAMETER FAIL PASS

Parameter values for verification: CV% within the limits

Test 09: Sample programming and Analysis

Purpose: To run the samples

Procedure:

S No.	Activity	Done By	Date
01	Preparing and Processing of samples	DANI DAVIS V	19/03/2012
02	Programming samples	DANI DAVIS V	19/03/2012
03	Aspirating the samples	DANI DAVIS V	19/03/2012
04	Viewing samples in process	DANI DAVIS V	19/03/2012
05	Review results: Monitoring results	DANI DAVIS V	19/03/2012

Acceptance criteria: Samples Analysis without any error

PARAMETER PASS FAIL

Parameter values for verification: Sample analysis without any error

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Purpose: To shut down the system

Procedure:

S No. Activity		tivity Done By		
01	Preparing the system for shut down	DANI DAVIS V	19/03/2012	
02	Following the on screen instructions	DANI DAVIS V	19/03/2012	
03	Switch off the instrument when prompted	DANI DAVIS V	19/03/2012	

Acceptance criteria: Shut down without any error

PARAMETER PASS FAIL

Parameter values for verification: Shut down without any error

OPERATIONAL PROCEDURE

Certificate of Training

1. Technician Training

This certifies that the technicians have received basic user training in the following categories for the system described in this Operational Qualification.

S No.	Training program	Initials	Date
1.	Instrument Setup		
2.	System Operation		
3.	Basic trouble shooting and Maintenance		

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2. Operator Training

The users responsible for the operation of this equipment have been trained in the proper usage of the system. Training focused on the basic operation and maintenance of the system.

S No.	Operators	Department	Initials	Date

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SURGING INNOVATION SERVING VI. SYSTEM CERTIFICATION

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

Report Performed By: AGAPPE DIAGNOSTICS LTD. Representative

Name : DANI DAVIS V

Designation : Engineer - Customer Service Signature :

Company : AGAPPE DIAGNOSTICS LTD. Date :

Customer Authorizations: POOJA DIAGNOSTICS, BANGALORE

Name :

Designation : Signature :

Title : PERFORMANCE QUALIFICATION Date :

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PRODUCT : EM - 180

SERIAL NO. : B-180038

PROV. NO. : 09/B06

ASW VERSION : 2014.01.02

ESW VERSION : 2014.0.12

VOLTAGE SUPPLY : 220V

DATE : 31/07/2014

CONCLUSION : PASS

CHECKED BY :

REVIEWED BY :

(Prod. Head)

VERIFIED & APPROVED BY

(QA Head)

Prov. No.

09/B06

[A] PHYSICAL CHECKING

1) 50 POSITION SAMPLE AND REAGENT TRAY (SRGT)

Fitting:

OK

Movement:

OK

2) 2 EXTERNAL DILUENT

POSITIONS

Fitting:

OK

3) REACTION TRAY (RCT)

Centering:

OK

Movement:

OK

4) REAGENT/SAMPLE PIPETTOR

Centering:

OK

Movement:

Liquid Flow: OK

OK

5) STIRRER

Centering:

OK

Movement:

OK

6) REACTION TRAY COVER

Fitting:

OK

7) SAMPLE & REAGENT TRAY

COVER

Fitting:

OK

8) DOME COVER

Fitting:

OK

9) GAS SPRINGS

Closing:

OK

Movement:

OK

10) INDICATOR LAMPS

a) ANALYZER SWITCH:

OK

b) LED ON ARM AND PANEL:

OK

.Prov. No.

09/B06

[B] PRE-BIOCHEMISTRY CHECK

1) TEMPERATURE	(Observed			Acceptance
SERVICE MENU	RCT:	37] .°c		36.5 to 37.5°C
	RGT:	- 11	°c .		04 to 12 °C
RUN TEST	RCT:	37	°c		36.5 to 37.5°C
	RGT:	11] °c		04 to 12 °C

2) AUTO SPAN SET

Acceptance criterial for Gain at all wavelength: 380 to 600

	The state of	GAIN	
WAVELENGTH	1	2	3
340	406	406	406
405	449	449	449
505	444	444	444
546	422	422	422
578	476	476	476
600	548	548	548
660	506	506	506
700	455	455	455

3) SENSORS:

1. DEIONISED WATER

OK

2. WASTE

OK

[C] OTHER FUNCTIONAL CHECKS 1) PRIME MODE OK 9) MULTIPOINT CALIBRATION OK 2) ROTOR CHECK OK 10) EMERGENCY MODE OK 3) REAGENT LEVEL SCAN OK OK 11) DILUTION MODE 4) REACTION CURVE OK 12) 2 REAGENT CHEMISTRY OK 5) RECALCULATION OK OK 13) QC MODE 6) RESULT DATA REPRINT OK 14) AUTOSTART-UP AND SHUT-DOWN OK MAINTAINANCE OK 7) PATIENT REPORT PRINT OK 15) HIBERNATE MODE 8) MAINTENANCE - WASH OK [D] DEAD VOLUME CHECK Acceptance Observed SAMPLE: 50µl TO 150 µl 100 SAMPLE CUP (2ML) in µl 250µl TO 450 µl SAMPLE TUBE(5 - 7 ML)in µl 350 **REAGENT:** 1.5 ml TO 2.5 ml 2 REAGENT: 50ML BOTTLE ...in ml 1.0 ml TO 2.0 ml 1.5 REAGENT: 20ML BOTTLEin ml 350 µl TO 650 µl REAGENT: 5 ML ADAPTORin µl

....Prov. No.

09/B06

..Prov. No.

09/B06

E) OPTIONAL CONFIGURATION STATUS

1] IS MACHINE WITH ISE MODULE? (YES / NO)

NO

Centering:

NA

Electrodes:

NA

2] IS MACHINE WITH BARCODE? (YES / NO)

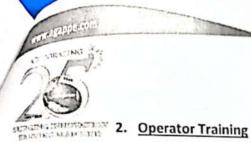
YES

BARCODE SCAN

OK

F1] WITHIN RUN PRECISION CHECK

				MULTICA		91305C		ERBA NORI	M:20	71415		ERBA PAT	H: 20	71416
ITEM		ALB		СНО		GGT		GLU	Т.	SGPT	_	PRO	_	
RGT Lot No		031304	10-	41305U	10	21403		11301U	-	61301U		WHEN PERSON NAMED IN		IREA
Expiry Date		3/2016	- 10	0/2014	0:	2/2016	_	1/2015		2/2015	-	21305	-	31402
UNIT		g/dl	1	ng/dl		IU/L		ng/dl		IU/L	-	3/2015	11	/2015
SPECIMEN		PATH	NORM	PATH	NORM	PATH	NORM	PATH	NORM	PATH		g/dl		ig/dl
1	4.64	5.46	175	213	47.3	93.8	104.7	272.8	56.4	_	NORM	PATH	NORM	PATH
2	4.63	5.42	174	214	46.1	95.4	104.0	275		133.8	6.73	8.23	44.50	176.3
3	4.65	- 5.51	176	212	47.0	97.2	103.6	271.7	50.9	127.6	6.63	8.33	44.60	174.1
4	4.60	5.49	176	217	43.9	93.4	104.2	275.4	47.2	128.6	6.68	8.23	44.00	175.1
5	4.66	5.45	174	216	42.6	89.8	104.2		49.2	126.4	6.63	8.30	44.40	174.10
- 6	4.69	5.45	178	218	44.6	96.8	104.0	277.9	48.4	125.9	6.68	8.25	44.40	177.00
7	4.64	5.45	175	216	44.3	92.7		274.7	50.4	123.7	6.71	8.32	44.70	178.80
8	4.61	5.47	178	211	44.6	91.2	104.2	273	49.2	126.9	6.68	8.22	44.40	176.70
9	4.70	5.50	177	211	43.2	97.8	104.7	276.1	49.7	127.9	6.63	8.35	44.10	174.10
10	4.65	5.48	178	215	44.4	91.6	103.9	271.4	48.9	126.4	6.66	8.33	43.50	175.70
11	4.69	5.47	175	211	46.3	90.9	104.0	276.6	49.9	124.4	6.67	8.32	43.60	175.80
12	4.63	5.54	175	214	44.8		103.9	275.3	48.2	128.1	6.66	8.22	44.40	174.90
13	4.62	5.43	172	210	46.4	94.7	104.4	277.2	49.2	126.4	6.61	8.30	43.40	173.70
14	4.63	5.43	172	215	48.1	92.3	103.6	278.8	48.9	127.9	6.68	8.30	43.80	-
15	4.64	5.44	174	213	40.1	91.4	103.4	279.4	49.9	130.1	6.60	8.30	43.80	170.90
16	4.61	5.48	173	213	46.8	95.6	103.6	278.5	48.7	125.9	6.69	8.27	-	176.60
17	4.67	5.53	176	212	-	91.6	102.0	280.7	50.7	125.6	6.65	8.29	43.60	173.70
18	4.60	5.39	173	215	45.7	94.5	102.3	275.3	45.2	128.1	6.68	8.27	44.70	173.00
19	4.65	5.44	173	211	41.6	91.4	102.7	. 279.3	49.9	128.1	6.68	STATE OF THE PARTY NAMED IN	44.20	175.00
20	4.62	5.35	175	-	44.4	91.4	102.0	276	48.9	127.4	6.70	8.28	43.00	172.00
Mean	4.64	5.46	174.95	213	45.5	91,1	102.4	274.5	52.6	130.4	-	8.24	43.60	176.00
SD	0.029	0.045	-	213.50	44.92	93.23	103.57	275.98	49.62	127.48	6.64	8.26	42.60	173.60
CV(%)	0.63	0.83	1.877	2.236	1.900	2.364	0.844	2.608	2,180	-	6.66	8.28	43.97	174.86
(4	0.00	0.03	1.07	1.05	4.23	2.54	0.81	0.94	4.39	2.227	0.033	0.040	0.580	1.848
ceptance:	Erbanorm	< 3.00 %	Erbanorm		TANKWAS ASTOCIO		100		4.39	1.75	0.50	0.48	1.32	1.06
Note:	Erbapath GGT L1 Poole	< 3.00 %	Erbanorm Erbapath 1 (Erba Norm	< 3.00 % < 3.00 %	Erbanorm Erbapath	< 5.00 % < 5.00 %	Erbanorm Erbapath	< 3.00 % < 3.00 %	Erbanorm Erbapath	< 7.50.% < 5.00 %	Erbanorm Erbapath	< 3.00 %	Erbanorm	< 5.00 %



AGAPPE

The users responsible for the operation of this equipment have been trained in the proper usage of the system. Training focused on the basic operation and maintenance of the system.

S No.	Operators	Department	Initials	Date
1.	SHIBV	BIOCHEM	2 mm	22-3-12
2.	3131	BIOCHEM	Tri	26-3-12

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN 150 13485:2016 CERTIFIED COMPANY] CIN : UZ4239MH1998PLC115413

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MUMBAI [REGISTERED OFFICE] 401 & 402, 4" Floor, Jassingh Business Centre, 119, Sahar Road, Parakvada, Andheré (Last), Maimhai - 400 099, India. 1el. -91 22 4300 8000 (Email: maimhaidh e-Eugzappe in

EQUIPMENT PLANT X/588-CB. Block No. 32, K-NFRA Small Industrial Park. Neillad, Cachin, Kecala, India - 686-721, Tel: +91-484-276-7472.

DELIN OFFICE DSM 340, 5° Floor, DCF Tower, Shivaji Marg, New Delti - 110 015, India Tet. -91 II 4558 6416 [Cinut]; delhoffic est agappe in

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VII. SYSTEM CERTIFICATION

AGAPPE

Study data has determined that the system described in this document either meets all criteria putline in this Operational Qualification Protocol, or exceptional conditions have been seidentified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for Performance Qualification.



Report Performed By: AGAPPE DIAGNOSTICS LTD. Representative

Name

: DANI DAVIS V

Designation

: Engineer - Customer Service

Signature

Dam

Company

: AGAPPE DIAGNOSTICS LTD.

Date

19-03-2012

Customer Authorizations: POOJA DIAGNOSTICS, BANGALORE

Name

DR. N. BHARAT

Designation

DIRECTOR

Signature

Date

10 2 12

Title

: OPERATIONAL QUALIFICATION

POOJA DIAGNOSTICS & SUPER SPECIALITY CENTE No.8. 80 fact Road, Chandra Lav... Rangalore - 560 040

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN 150 13485:2016 CERTIFIED COMPANY [CIN : U24239MH1998PLC115413

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AGAPPE

2. Operator Training

The users responsible for the operation of this equipment have been trained in the proper usage of the system. Training focused on the basic operation and maintenance of the system.

S No.	Operators	Department	Initials	Date
1.	SHIBU	BIOCHEM	3 him	22/3/2012
2.	2121	BIOCHEM	55	26/3/2012

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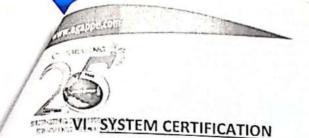
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Bangalore - 5-60 001. Tel: +91 60 2278 8288
Enialt: bangatur euffice@eg uppe.in

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AGAPPE

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

Report Performed By: AGAPPE DIAGNOSTICS LTD. Representative

Name

: DANI DAVIS V

Designation

: Engineer - Customer Service

Signature

Company

: AGAPPE DIAGNOSTICS LTD.

Date

19-03-2012

Customer Authorizations: POOJA DIAGNOSTICS, BANGALORE

Name

: DR. N. BHARAT

Designation : DIRECTOR

Signature

Title

: INSTALLATION QUALIFICATION

Date

: 19-3-12

POOJA DIAGNOSTICS & SUPER SPECIALITY CEN No.8, 80 feet Road, Chandra L... Rangalore - 560 04n

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VI. SYSTEM CERTIFICATION

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



Report Performed By: AGAPPE DIAGNOSTICS LTD. Representative

Name

: DANI DAVIS V

Designation

: Engineer - Customer Service

Signature :

Company

: AGAPPE DIAGNOSTICS LTD.

Customer Authorizations: POOJA DIAGNOSTICS, BANGALORE

Name

: DR. N. BHARAT

Designation

: DIRECTOR

Signature :

Title

: PERFORMANCE QUALIFICATION

Date

19-3-12

POOJA DIAGNOSTICS & SUPER SPECIALITY CENTERS No.8, 80 feet Road, Chandra Lav... Rangalore - 560 040

AGAPPE DIAGNOSTICS LTD. 150 9001:2015 [EN ISO 13485:2016 CERTIFIED COMPANY] CIN: UZ4239MH1998PLC115413

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