

QUALITY ASSURANCE DEPARTMENT

PERFORMANCE QUALIFICATION FOR COMPUTER SYSTEM

S	stem Name: FTIR	System ID:
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PERFORMANCE QUALIFICATION FOR

COMPUTER SYSTEM

OF

FTIR

System Name	FTIR
System ID	
Location	Instrument Lab
Effective Date	

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System Name:	ystem Name: FTIR System ID:			
1. PRE-AP	PROVALS:			
The signature	e listed below indicates the pre-	-approval of this perform	mance qualification. This approval is	
joint respons	ibility of listed functional areas.			
	DOCUMENT DEVELOPM	ENT	SIGN / DATE	
Name	:			
Designation	:			
		I		
	DOCUMENT REVIEW	AND APPROVAL (M	/S)	
Sign / Date	:			
Name	:			
Designation	:			
	Engineering			
Sign / Date	:			
Name	:			
Designation	:			
	IT			
Sign / Date	:			
Name	:			
Designation	:			
	Quality Control			
	DOCUMENT AUTH	ORIZATION (M/S)	
Sign / Date	:			
Name	:			
Designation				
	Quality Assurance			

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2.	SIGNAT	TURE OF	EXECUTOR:

All the executer involved in th	s document	have to	sign within	prescribed	format	given	below.
M/s							

Name	Designation	Signature	Initial	Date

M/s

Name	Designation	Signature	Initial	Date

3. REVISION HISTORY:

Date	Supersedes	Reason for Revision

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4. OBJECTIVE:

The objective of the system requirement specification defines the requirements of hardware software, functions and documentation for the Computer System (FTIR) installed, and performs at M/s.

This document will be cross-referenced with the relevant system specification to ensure that the system specifications have been met according to M/s. requirements.

5. SCOPE:

6. SYSTEM DESCRIPTION:

Computer system of FTIR defines the controlling of analytical instrument connected to the system. It controlled the process of instrument connected to it by the software installed in the CS. The operator interface is carried out by CS screen. The CS is used to feed required parameters and set points in the system during operation. The system is connected to data server for printing and data backup. The system is secured by IT through password only within the system.

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7. ROLE AND RESPONSIBILITY:

The validation team comprising of representative from each of the following departments should be responsible for overall compliance with this validation plan.

Department	Responsibilities
Validation	> To collect the necessary data for performance qualification activities.
Agency ()	> To prepare and execute the performance qualification in coordination with
()	engineering, validation and quality assurance team.
	Comply with regulatory / Guidelines / Standards / validation plan requirements
	throughout the validation life cycle.
	> To submit performance qualification for approval.
Engineering	> To provide the necessary data for performance qualification activities.
(M/s)	> To review the performance qualification.
IT	> To provide the necessary data for performance qualification activities.
(M/s)	> To review the performance qualification.
Quality Control	> To provide the necessary data for performance qualification activities.
(M/s)	To review the performance qualification.
Quality	
Assurance	> To approve and authorized the performance qualification.
(M/s)	

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System Name: FTIR System ID:

8. REFERENCES:

The publication listed below form part of this reference documents. Each publication shall have latest revision in effect on the date of this document is approved for execution.

GAMP 5	Good Automated Manufacturing Practices, Version 5, Guideline
	Document for Automated Systems from International Society of
	Pharmaceutical Engineering
21 Code of Federal	Current Good Manufacturing Practice in Manufacturing,
Regulations (CFR), Part 210	Processing, Packing, or Holding off Drugs; General
21 Code of Federal Regulations (CFR), Part 211	Current Good Manufacturing Practice for finished Pharmaceuticals
21 Code of Federal	21 Code of Federal Regulations (CFR), Part 11
Regulations (CFR), Part 11	Electronic Records, Electronic Signatures, Final Rule Electronic
	Submissions; Establishment of Public Docket, Notice
ICH Q9	International Conference of Harmonization (ICH) quality risk assessment Q9
EU GMP	Laying down the principles and guidelines of GMP in respect of
	medicinal products for human use.
WHO	Appendix 5, validation of computerized systems.

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9. DOCUMENTATION PROCEDURE:

- Qualification activities will be performed as defined in the approved document.
- All documentation will be completed during the execution of the qualification.
- Recording of information will be made in permanent ink.
- Fill out complete information in the verification table provided.
- Do not keep any space blank. Mark blank space with a single line throughout the appropriate space with mentioning NA (Not Applicable) and put initial and date.
- Correct the mistakes by drawing a single line through the incorrect data, recording the correct information and then initial sign and date the change.

10. QUALIFICATION COMPLETION AND APPROVAL:

- Verify that all tests required by qualification are completed and attached.
- Verify that all amendments and discrepancies are documented, approved and attached.
- If all items in the qualification for the Computer System Based system (FTIR) have been reviewed and found to be acceptable, sign the corresponding block in the qualification completion and approval form.

11. ACCEPTANCE CRITERIA:

- Installation completion as per manufacturer's recommendations & cGMP requirements.
- Installation of major components as per the design specifications.
- The supply of all necessary documentation from manufacturer.
- The system is operating as intended and is under state of control.
- Performance features meet system requirements and system specifications.

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System Name: FTIR System ID:

12. PERFORMANCE VERIFICATION TEST:

12.1 Verification of Control Loops Test

Objective : To Verify the performance of Process.

Tools Required : Not Applicable

Procedure : 1. Start the equipment in normally.

2. Login with user level id.

3. Set require method/sequences for the test.

4. Start process and observe the set process method.

5. If printing facility available, attached the printout of whole integrated

control loop test.

Acceptance Criteria : Computer system should able to control the set process method within the

specified limit.

Verification Table:

Description	Specified	Actual result	Discrepancy? (Y/N)
Check all pre- requirement	ck all pre- requirement		
condition for system start and	healthly and method should		
set the required method.	be set in within range.		
Login with user level id.	Login shall be Successfully.		
	Machine should start and		
Set the method/sequences.	control process of		
	method/sequences.		
Start the method/sequences.	Observe the set process.		
	Printed and set		
Take the print report of	method/sequences should be		
control loop test	same and attached the printout		
	in attachment.		

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PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

Pharma Devil	8				
	PERFO	RMANCE QUA	LIFICATION	FOR COM	IPUTER SYSTEM
ystem Name: FTIR				System ID:	
Remarks	::				
_					
N	Meet the accepta	nce Criteria [] Yes [] No	Reference Attachment No. []
C	Checked by :				Date:
V	erified by :				Date:

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13. PERFORMANCE QUALIFICATION TEST STATUS:

The performance qualification test status is as per below mentioned table.

Test Description	Status (Pass / Fail)	Discrepancy? (Y/N)
Verification of Control Loops Test		

14. DISCREPANCIES HANDLING DURING COMPUTER QUALIFICATION:

- In case of discrepancy observed during qualification, document in the defined column in each table and document the details of the observation in the discrepancy log sheet.
- Inform to engineering IT quality control and quality assurance about discrepancy.
- Investigate the discrepancy and ensure the possible impact.
- If discrepancy does not have potential to impact on operation as well as performance of the system, close the discrepancy with proper justification.
- The engineering IT QC and QA will decide whether discrepancy is acceptable or not.
- If discrepancy is acceptable, provide conclusion and recommendation if any into respective column.

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stem Name: FTIR	System ID:	
15. DISCREPANCY AND CORRE	CTIVE ACTION FORM:	
Protocol Reference		
Discrepancy Number		
DISCREPANCY:		
Describe the Discrepancy		
Reported by	Date	
CORRECTIVE ACTION:	<u>'</u>	
Describe corrective action taken (Att	tach additional sheets if necessary)	
20002100 00110012 (1211		
7		
Reported by	Date	
DISPOSITION ACTION:		
Acceptable? Yes	No	
Discussion		
Approved by	Date	
COMPLETION:	I	
Completed by	Date	
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16. ABBREVIATION:

Abbreviations	Description	
GMP	Good Manufacturing Practices	
SRS	System Requirement and Specification	
IQ	Installation Qualification	
OQ	Operation Qualification	
PQ	Performance Qualification	
QA	Quality Assurance	
SOP	Standard Operating Procedure	
NA	Not Applicable	
ICH	International Conference of Harmonization	
VAC	Alternate Current Voltage	
VDC	Direct Current Voltage	
WHO	World Health Organization	

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17. ATTACHMENT SUMMARY:

Attachment No.	Description
Troubline 110.	Description
18. PERFORMANO	CE QUALIFICATION SUMMARY & CONCLUSION:
Compiled by	Date:
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19. POST APPROVALS:

The signature listed below indicates the post approval of this performance qualification. This approval is joint responsibility of listed functional areas.

	DOCUMENT DEVE		SIGN/ DATE		
Name	:	-			
Designation	:	_			
_					
	DOCUMENT RI	EVIEW AND APPROVAL ((M/S)		
Sign / Date	:	-			
Name	:	-			
Designation	:	_			
	Engineering				
Sign / Date	:	-			
Name	:	-			
Designation	:	-			
	IT				
Sign / Date	:	-			
Name	:	-			
Designation	:	-			
	Quality control				
DOCUMENT AUTHORIZATION (M/S)					
Sign / Date	:	-			
Name	:	-			
Designation	:	-			
	Quality Assurance				

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