



**INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH**

**Pre - Execution Approval**

	<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Prepared By				
Reviewed By				
Reviewed By				
Reviewed By				
Approved By				



## **INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH**

### **1.0 Objective:**

The purpose of installation qualification is as follows

- To provide documented evidence that the mentioned Water Bath is installed as per design.
- To ensure that the Water Bath installed confirms to purchase specifications and manufacturer literature, and to document the information that the Water Bath meets the specification.

### **2.0 Scope:**

**Scope is limited to the following**

<b>Equipment / System Name</b>	<b>Water Bath</b>
<b>ID Number</b>	.....
<b>Location</b>	<b>Media Preparation Room</b>

### **3.0 Equipment / System Description:**

The Water Bath Chamber is made of stainless steel, which is properly sealed and insulated to prevent it from leakage.

- The water immersion heater is fitted having total rating of 1500 watts to heat up the Water bath media.
- The samples are kept in the water bath for analysis at high degree of precise and even temperature through out the test.
- The highly accurate precalibrated electronic controller is operating the instrument within the specified accuracy.



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**4.0 Checklist for Preinstallation verification:**

The purpose of the checklist is to confirm the availability of required documents for installation and to verify the availability of components and parts as per the approved purchase order in presence of the technical personnel of the vendor.

Preinstallation verification checklist is enclosed as Annexure - I.

**5.0 Checklist for Installation verification:**

Installation verification checklist is enclosed as Annexure - II.

**6.0 Any Changes identified towards equipment design / lay out.**

Refer Annexure - III.

**7.0 Recommendations and Conclusions:**

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**8.0 References:**

- Copy of Purchase order
- Packing list supplied by vendor (Not applicable).
- List of spares (Not applicable).
- Installation Qualification submitted by vendor.
- Impact Assessment analysis.

**9.0 Annexure**

- Annexure - I : Check list for Preinstallation Verification.
- Annexure - II : Check list for Installation Verification.
- Annexure - III : List of Changes / Deviation.
- Annexure - IV : Installation Qualification Submitted by the vendor.
- Annexure - V : Impact Assessment Analysis.
- Annexure - VI : Summary Report of Installation Qualification
- Annexure - VII : Copy of Purchase order



**INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH**

**10.0 Abbreviations:**

IQ : Installation Qualification

**Post execution approval:**

	<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>
Compiled By				
Reviewed By				
Reviewed By				
Reviewed By				
Approved By				



**INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH**

**Annexure - I**

**Checklist for Preinstallation Verification**

S.No.	Main Components Accessories / Documents	Code / Doc No.	Actual	Remarks
1.	Purchase Order No.	.....		
2.	Vendor's Name	Scientico Instruments		
3.	Instrument Make	Electron		
4.	Instrument Model No.	.....		
5.	Instrument Manual	Instrument Manual submitted by the vendor		



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**Annexure - II**

**Checklist for Installation Verification**

S.No.	System Data	Acceptance Criteria	Actual	Remarks
<b>A.</b>	<b>Equipment /Instrument specific details</b>			
1.	Bath Dimensions (L x W x D)	Should be 400 x 300 x 100 mm		
2.	Bath tub (MOC)	Should be SS - 304		
3.	Bath Capacity	12 hole		
4.	Display	7 Segment 4 Digit		
5.	Heater	1.0 KW should be provided		
6.	Sensor	RTD - PT - 100		



## INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH

S.No.	System Data	Acceptance Criteria	Actual	Remarks
A.	Equipment /Instrument specific details			
7.	Verification	Major components are securely anchored and protected from shock		
		No observable physical damage		
		Sufficient Room Provided		
		Electrical connections have been done according to drawing		
		Required electric connections are tight, proofed and grounded		
		Equipment identification nameplate is visible		



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S.No.	System Data	Acceptance Criteria	Actual	Remarks
<b>B.</b>	<b>Location suitability</b>			
1.	Location	Should be installed In Media Preparation Room		
<b>C.</b>	<b>Utilities</b>			
1.	Electrical Power Supply	230 Volts AC 50Hz 1 phase, 10 amp supply should be provided		
<b>D.</b>	<b>Safety</b>			
1.	Not Applicable	Not Applicable		
<b>E.</b>	<b>MOC Certificates</b>			
1.	Not Applicable	Not Applicable		
<b>F.</b>	<b>Calibration Certificates</b>			
1.	Calibration Certificates	Should be provided		
<b>G.</b>	<b>Testing Certificates</b>			
1.	Testing Certificates	Should be provided		
<b>H.</b>	<b>Drawing Details</b>			
1.	Not Applicable	Not Applicable		





**INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH**

**Annexure - III**

**List of Changes / Deviations**

S.No.	Description of Change / Deviations	Justification based on impact analysis

**Verified By:**

**Approved By:**



**INSTALLATION QUALIFICATION PROTOCOL FOR WATER BATH**

**Annexure - VI**

**Summary Report of Installation Qualification**

<b>Checks</b>	<b>Observations (Yes / No)</b>	<b>Reviewed By Sign / Date</b>
All test procedures executed and verified as per the protocol.		
All criteria set forth in the installation qualification were met.		
Deviation if any		

**Summary:**

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**Summary Report Prepared By:**

**Date & Sign**