

# AQUALAB – WATER ACTIVITY METER INSTALLATION / OPERATIONAL QUALIFICATIONS

## AquaLab Information

Manufacturer: Decagon Devices, Inc.  
 Model Number: Series 3TE  
 Serial Number: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Department: \_\_\_\_\_  
 Room Number: \_\_\_\_\_  
 Contact: Decagon (800) 755-2751  
 Calibration SOP #: \_\_\_\_\_  
 Calibration Frequency: Daily/Before each use

## Installation Qualification

Installation of AquaLab includes placing the instrument on a level surface in a location where the temperature remains fairly stable. This location should be well away from air conditioner and heater vents, open windows, outside doors, or other items that may cause rapid temperature fluctuation. After finding a good location for your AquaLab, plug the power cord to the back of the unit and a standard AC outlet. The ON/OFF switch is located on the lower right corner of the AquaLab's back panel.

AquaLab properly installed at facility

Qualified By: \_\_\_\_\_ Date Qualified: \_\_\_\_\_  
*(Vendor Representative/Analyst Name)*

## Operational Qualification

AquaLab's operation and performance is verified by measuring specially prepared salt solutions that have a specific molality and water activity. In order to provide the most accurate readings, your AquaLab should ideally be allowed a warm-up period of at least 15 minutes after turning it on. Performance Verification Standards come in four water activity levels: 0.250, 0.500, 0.760, and 0.984<sub>a<sub>w</sub></sub>. AquaLab will read each salt solution within ±0.003<sub>a<sub>w</sub></sub> of the stated value.

Standard @ 25°C	a <sub>w</sub> ±0.003	°C
13.41m LiCl	0.250	
	0.250	
8.57m LiCl	0.500	
	0.500	
6.0m NaCl	0.760	
	0.760	
0.5m KCl	0.984	
	0.984	

AquaLab measured Verification Standards within specification:  YES  NO  
 Qualifications met Vendor Acceptance Criteria:  YES  NO

