

Biolum

Portable ATP Hygiene Monitoring System

Your reliable hygiene safety guardian

Powerful Memory Capacity

256 test plans, 256 user IDs, 2000 test program, 10000 results

User-friendly

3.5 inch high resolution color screen, intuitive menus, simple to use

Connectivity

Connect PC via USB, connect printer or app in Android system mobile phone through Bluetooth

Highly Portable

Within 300g with battery



Fast

Result in 10s for one test

Sensitive

Detect down to 10^{-16} mol of ATP

Template

Pre-configured templates including different industries and locations, together with upper and lower limits can start your test immediately

Low Consumption

Using Li-ion battery that can work more than 8h continually

Biolum Portable ATP Hygiene Monitoring System, a powerful tool for implementing and managing your hygiene monitoring program. Taking advantages of the progressive testing swab, the hygiene level will be evaluated in seconds, and the results can be visualized on screen. Featuring the state-of-art technology, the Biolum is a user-friendly, flexible, and accurate quality monitoring system. It has all the features to maximize its value to your business.

COMPATIBLE SWABS

QuickSwab

ATP QuickSwab is simple to use, all-in-one and pen-sized sampling device, with the pre-moistened swab that offers extraordinary accuracy and precision for many Industrial applications.



LiquSwab

LiquSwab is an easy to use ATP liquid test work with Biolum Hygiene monitoring system from Tianlong. The swab is available in two formats: Free and Total. LiquSwab Free measures dissolved ATP that is free in liquid (non-microbial ATP). LiquSwab Total measures both free ATP and microbial ATP (non-microbial and microbial ATP) in the liquid. The difference between Total and Free provides an indication of microbial contamination in the samples.




ACCESSORIES

EternalLight-H

LED Calibration Verification for ATP

EternalLight-H is a reusable device for quick and reliable calibration verification. We recommend incorporating instrument calibration into a quality control program to verify that the Biolum ATP continues to operate correctly and is under control. EternalLight-H provides an all-in-one, reusable positive and negative calibration verification, activated by the click of a button.

By pressing the button on the cap, EternalLight-H will emit a 3 seconds green LED light to indicate power on. EternalLight-H can be used as a positive control when on. In the off state, EternalLight-H can be used as a negative control to remind the user whether the null value is normal.



- 1 **LED calibration verification device featuring negative and positive modes**
- 2 **Verifying as part of a quality control program and proving system working properly**
- 3 **Powered by an easily replaceable coin battery**
- 4 **Reusable device allowing for unlimited calibration verification**
- 5 **Compatible with Biolum ATP hygiene monitoring system**

Test Procedure

Negative test

- 1  Biolum self-checking
- 2  Checking the EternalLight-H
- 3  Insert EternalLight-H into Biolum
Taking care not to press the button
- 4  Close the lid of Biolum
- 5  Press "OK" to start measurement
- 6  Record initial RLU results

Instrument No:	
Negative EternalLight-H RLU	*
Positive EternalLight-H RLU	

***Record your initial negative RLU. RLU range should be within 0-4.**

Positive test

- 1  Biolum self-checking
- 2  Checking the EternalLight-H
- 3  Insert EternalLight-H into Biolum
- 4  Press the button on EternalLight-H to turn device on
the light will turn green
- 5  Close the lid of Biolum
- 6  Press "OK" to start measurement
- 7  Record initial RLU results

Instrument No:	
Negative EternalLight-H RLU	
Positive EternalLight-H RLU	*

***Record your initial positive RLU. RLU range should be within 160-240.**

Interpretation: record your initial positive RLU and negative RLU, if either of the RLU is not within the range, please start calibration.

Calibration

- 1  select in turn "Setting"-
"Help"- "Calibration"
- 2  Set the RLU value to 200 RLU
- 3  Instrument background calibration
- 4  Press the button on EternalLight-H to turn device on
- 5  Insert EternalLight-H for calibration
Ensure swab in the front direction
- 6  Remove EternalLight-H and close the lid
- 7  Continue the calibration process until done
- 8  Take positive test to confirm

APPLICATION AREAS

 Food Processors
  Health Care
  Food Service
  Environment Protection
  Other Industries

SPECIFICATIONS

Model	Biolum
Dimensions	189mmx70mmx35mm
Weight	280g
Detection Limit	10^{-16} moles ATP
Detection Deviation	±5% or±5 RLU
Self-calibration at Startup	15s or 60s
Real-time Detection Time	10s/test
Memory Capacity	256 test plans, 256 user IDs, 2000 test program and 10000 results
Communication Interface	USB, Bluetooth
Test Repeatability	8%-20%
Correlation Coefficient	$R \geq 0.995$
Power Supply	Rechargeable battery
Running Time	Continuously work for > 8hrs,standby for>600 hrs
Operating Temperature Range	5-40°C
Operating humidity Range	20-80%

Swabs

Cat.No.	Swabs	Specification	Remark
A017H	QuickSwab	20pieces/package	Surface test
A010H	LiquSwab Total	20pieces/package	Liquid test (Total ATP)
A011H	LiquSwab Free	20pieces/package	Liquid test (Free ATP)

Calibration Verification

Model	EternalLight-H
Service life	5 years
Battery	CR1025 lithium battery (3V)

Bring Technology to Life



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