Bring Technology to Life

TIAN LONG

Biolum Plus

Portable ATP Hygiene Monitoring System

Your smarter hygiene safety guardian

Smarter

Faster

Cloud-connected

Fast
Result in 10s for one test

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

Template
Pre-configured templates including different industries and locations



AOAC certified
Proven quality you can rely on

Connectivity
Connect the web via USB interface or Wifi, connect printer through Bluetooth

Cloud-based data management
Monitor, track, and trend testing results across multiple facilities

PERFORMANCE TESTED AOAC RESEARCH INSTITUTE LICENSE NUMBER 022401

As the upgraded member of Tianlong's ATP hygiene monitoring family, Biolum Plus takes hygiene monitoring to the next level. The progressive testing swab ensures reliable results within seconds, which are clearly displayed on screen for instant evaluation. With enhanced software design and cloud-based data management system, it offers a more intuitive and convenient operation experience.

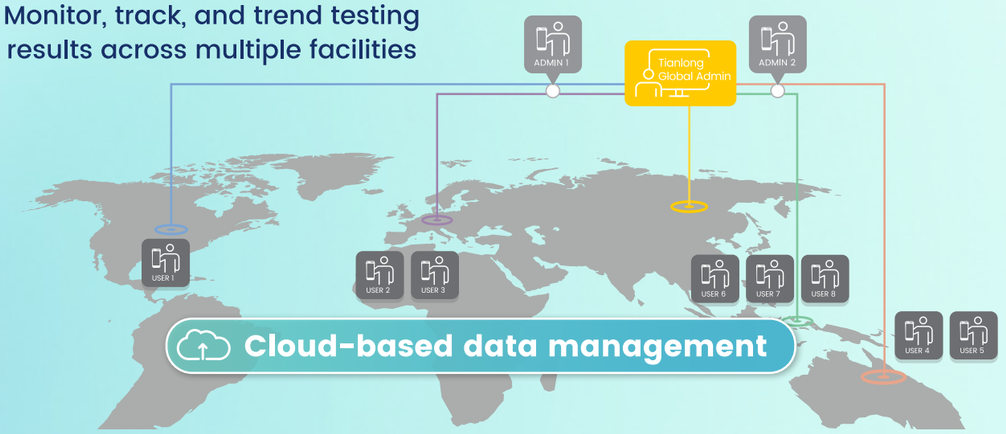
Biolum Plus ATP Hygiene Monitoring System and Surface Swab have achieved Performance Tested Methods certification from the AOAC Research Institute, an internationally recognized organization for analytical method evaluation.

SMARTER HYGIENE MONITORING, POWERED BY THE CLOUD

Tianlong cloud-based data management software connects easily with Biolum Plus to collect, analyze, and visualize ATP data from multiple devices—anytime, anywhere. It streamlines workflows, strengthens risk control, and enhances hygiene monitoring efficiency.

- One-click software updates
- Web-based platform,no installation needed
- Team collaboration with role-based access
- Flexible management of one or multiple devices
- Centralized data management across sites

Monitor, track, and trend testing results across multiple facilities



COMPATIBLE SWABS

Surface Swab

Surface Swab is a simple, all-in-one, pen-sized sampling device for surface cleanliness testing. It delivers exceptional accuracy and precision across a wide range of industrial applications.



01 Sampling&Reaction together,easy to use

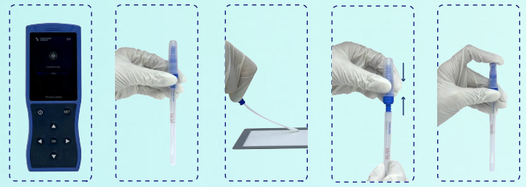
02 Pre-moistened swab tip

03 Accurate, high reproducibility

04 10s for one test

PERFORMANCE TESTED AOAC RESEARCH INSTITUTE LICENSE NUMBER 022401

Test Procedure





Aquaswab

Aquaswab is a fast and reliable sampling tool designed for ATP testing in liquid samples.The swab is available in two formats: Free and Total. Aquaswab Free measures dissolved ATP that is free in liquid(non-microbial ATP). Aquaswab Total measures both free ATP and microbial ATP (non-microbial and microbial ATP) in the liquid. The difference between Aquaswab Total and Free provides an indication of microbial contamination in the samples.



- 01 Easy to operate
- 02 10s for one test
- 03 12 month shelf life at 2-8°C, 4 weeks shelf life at 21-25°C
- 04 Detect ATP down to 10^{-16} mol

Test Procedure

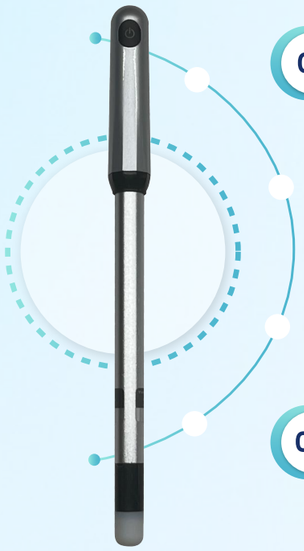


ACCESSORIES

EternalLight-H

ATP Detector Optical Calibrator

Biolum Plus will ensure the test accuracy every time turning on the self-check function. Also, the additional calibration can be used to verify the accuracy by EternalLight-H. This calibration verification device is highly compatible with Tianlong Biolum, Biolum Plus and Biolum Pro ATP hygiene monitoring system.



- 01 LED calibration verification device featuring negative and positive modes
- 02 Verifying as part of a quality control program and proving system working properly
- 03 Reusable device allowing for unlimited calibration verification
- 04 Powered by an easily replaceable coin battery

SPECIFICATIONS

Model	Biolum Plus
Dimensions	189mmx70mmx35mm
Weight	315g
Detection Limit	10^{-16} moles ATP
Detection Deviation	±5% or±5 RLUs
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, WiFi
Test Repeatability	8%-20%
Correlation Coefficient	$R^2 \geq 0.995$
Power Supply	3.7V rechargeable lithium battery (charging limit voltage: 4.2V)
Running Time	Continuously work for 10 h, standby for 600 h
Operating Temperature Range	5-40°C
Operating humidity Range	≤80% RH

Swabs

Cat.No.	Swabs	Specification	Remark
A033H	SurfaceSwab	20 pieces/package	Surface test
A034H	Aquaswab Total	20 pieces/package	Liquid test (Total ATP)
A035H	Aquaswab Free	20 pieces/package	Liquid test (Free ATP)

Calibrator

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

APPLICATION AREAS



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