

TIANLONG BIOLUM

 **TIANLONG**[®]

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with  **SK telecom**

TIANLONG BIOLUM



**Portable ATP
Hygiene Monitoring
System Biolum**

Your reliable hygiene safety guardian

 **TIANLONG**[®]
Bring Technology to Life

Biolum

Your reliable hygiene safety guardian

FEATURES & BENEFITS

Sensitive

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

Highly Portable

within 300g with Battery,
189x70x36mm

Powerful Memory Capacity

255 test plans, 255 user IDs,
2000 test program, 1000 results

Low consumption

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

Open Reagents

Compatible with swabs from other
manufacturers



Fast

Result in 10 sec for one test

User Friendly

3.5" high resolution color
screen, intuitive menus, less
bottoms, simple to use

Intuitive result

Pass, Caution, or Fail result
symbols are intuitive for any
user



Template

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

Connectivity

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

Biolum Portable ATP Hygiene Monitoring System, a powerful tool for implementing and managing your hygiene monitoring program. Taking advantages of the progressive QuickSwarb surface test, the hygiene level of the tested surface 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.

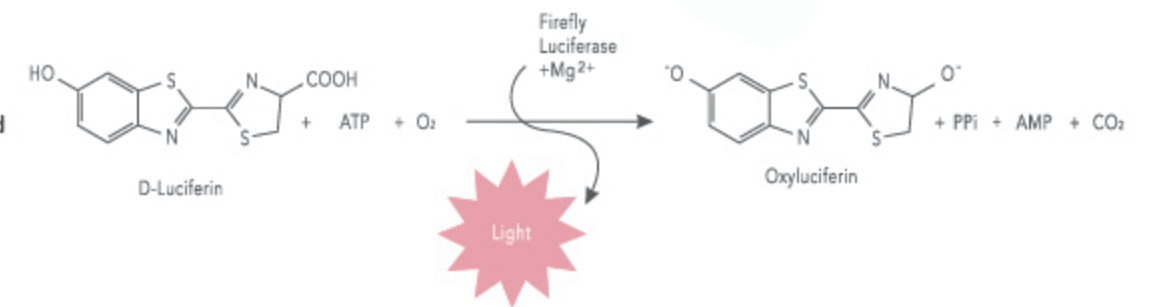
Quickswab

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.

SWABS FEATURE



- 1 Sampling & Reaction together, easy to use
- 2 Pre-moistened swab tip
- 3 Accurate, high reproducibility
- 4 10s for one test



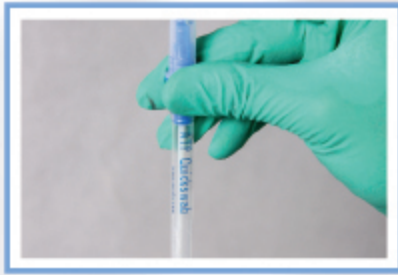
Adenosine tri-phosphate (ATP) is a molecule found only in and around living cells in like all animal, plant, bacteria and yeast, and as such it gives a direct measure of biological concentration and health. ATP is quantified by measuring the light produced through its reaction with the naturally-occurring firefly Luciferase using a Luminometer. The amount of light produced is directly proportional to the amount of living organisms present in the sample.

HOW IT WORKS

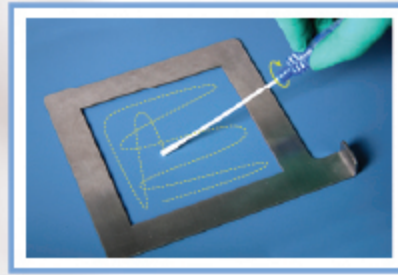
The whole measurement procedure is easy to learn and test data can either print by bluetooth printer, or export through data export software on PC for your documentation, data export software is an easy-to-use data analysis software that comes free with every Biolum system.



1. Device Self-Checking



2. Checking the swab



3. Sampling



4. Injection



5. Insertion



6. Measuring



Bluetooth Printer

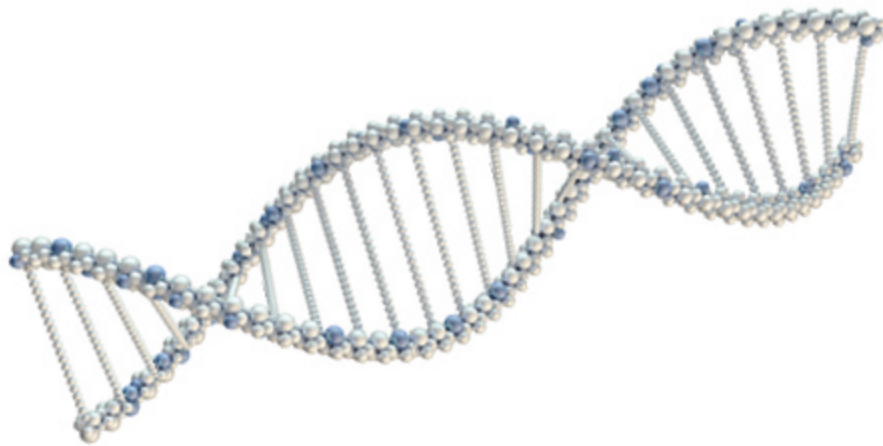


Software Interface



RESULT EXPORT

DeviceID	UserID	Plan Name	Prog	Location	Surface	Result	RLU	Lower_ID	Upper_ID	Test Time	Test Date
99745	0	0	0			Pass	0	10	30	19:22:00	2014-4-24
99745	0	0	0			Pass	0	10	30	10:32:00	2014-4-24
99745	0	0	0			Pass	0	10	30	10:33:00	2014-4-24
99745	0	0	0			Pass	0	10	30	11:20:00	2014-4-24
99745	0	2	0			Fall	10976	10	30	11:21:00	2014-4-24
99745	0	2	0			Fall	10964	10	30	11:22:00	2014-4-24
99745	0	2	0			Fall	10961	10	30	11:23:00	2014-4-24





APPLICATIONS



SPECIFICATIONS

ITEMS	PARAMETER
Biolum	
Dimensions	189 mm × 70 mm × 36 mm
Weight	≤ 300 g
Detection limit	10 ⁻¹⁶ moles ATP
Detection Deviation	5 % or ±5
Self-calibration at startup	15 s or 60 s
Real-time detection time	10 s/test
Memory Capacity	255 test plans, 255 user IDs, 2000 test program, 1000 results
Communication Interface	USB, Bluetooth
Reproducibility	CV 8 % ~ 20 %
Correlation Coefficient	R ² ≥ 0.99
Power Supply	Rechargeable battery
Running Time	continuously work for > 8 hrs, standby for > 600 hrs
Temperatures allowed during operation	5 ~ 40 °C
Relative humidity allowed during operation	< 60 %
QuickSwab	
Swab storage	2 ~ 8 °C : 12 months
Swab compatible	Hygena SystemSURE Plus, EnSURE, Others
Swab packing specifications	5 pieces/package, 20 pieces/package, 100 pieces/box

