

ATP SURFACE TESTING

1. What is ATP?

ATP is short for adenosine triphosphate and it is an organic molecule that is used by living cells as their main source of energy. Animal, plant bacterial, yeast and mold cell products and break down ATP in order to drive a number of biological processes, and the main energy transfer molecule in the cell. The presence of ATP on a surface indicates that the surface has not been adequately cleaned and has the potential to harbour and support bacterial growth. The residue may also contain hazardous material including potential allergens. Therefore, ATP is an ideal indicator of surface cleanliness

2. What do you measure ATP on your surface?

In order to test ATP, you'll need a specialty meter as well as the preferred medical swabs. Both conveniently available on amazon.com The swabs must remain refrigerated and have an expiration date.

2a. Meter

Hygiena SystemSURE Plus ATP Monitoring System

This system detects down to 1 femtomole (1×10^{-15} moles) of ATP



2b. Swabs

Hygiena UltraSnap Surface ATP Test Device

Refrigerate once you receive from supplier



3. How do you use the device?

Powering Up

Turn the device on by pressing the Red and Blue button, and let the unit power up. It has a built in power-up self check mode that runs for approximately 60 seconds

Collecting Sample:

Do not touch the swab or the inside of the swab tube. Holding the swab tube, twist and pull the top of the swab out of the swab tube (Fig 1). The swab tip comes pre-moistened with a detergent. Thoroughly swab a 4 inch x 4 inch area on your surface in a rotating fashion (Fig 2). After swabbing, immediately place the swab back in the swab tube (Fig 3).

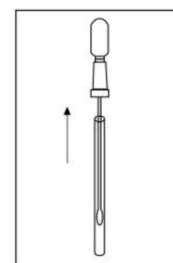


Fig 1



Fig 2

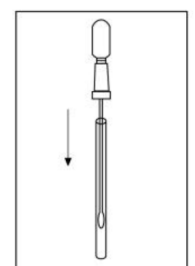


Fig 3

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3. How do you use the device? (cont.)

Activating Device

To activate device, hold swab tube firmly and use thumb and forefinger to break Snap-Valve by bending bulb forward and backward (Fig 1). Squeeze bulb twice, expelling all liquid down swab shaft. Bathe swab bud in liquid by shaking for 5 - 10 seconds (Fig 2). Once activated, sample must be read in luminometer within 30 seconds.



Fig 1

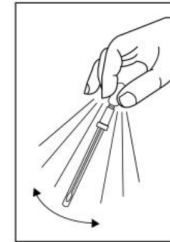


Fig 2

Reading Results

Holding ATP device upright, insert entire UltraSnap device into the device (Fig 1). Close device lid and press "OK" to initiate measurement (Fig 2). Refer to instrument manual for operating instructions. Results will be displayed in 15 seconds.

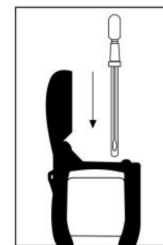


Fig 1



Fig 2

Interpretation of Results:

Hygiene luminometers are preset with Pass & Fail RLU limits of 10 and 30 RLU. These limits are based on industry standards and published study recommendations. When using default settings, readings less than 10 RLU indicate surface is considered clean. Readings between 11-29 RLU indicate a warning, surface is not adequately clean. If reading is greater than 30 RLU, surface is considered dirty. Hygiene recommends setting RLU thresholds according to standards of your facility.

