

# Water ATP Swab



**Product #: T007**



Read this manual carefully before test, and follow the instructions. Failure to do so may lead to inaccurate results.

**Water ATP Swab** is a self-contained, single-use test device that contains a swab for the collection of a sample from water, which can be used in the detection of adenosine triphosphate (ATP), you can get the result within 5 seconds cooperated with luminometers.

## 1. Principle

ATP is the universal energy molecule found in all animal, plant, bacterial, yeast, and mold cells, which is an indicator of organic residues and microorganisms. When a sample is collected and ATP is brought into contact with the unique liquid stable luciferase/luciferin reagent in the test device, light is emitted in direct proportion to the amount of ATP present in the sample. The luminometer measures generated light and reports results in Relative Light Units (RLU). RLU result provides information on the level of contamination within seconds. The higher the RLU number, the more ATP present, and the dirtier the surface.

## 2. Application

**Water ATP Swab** can be used in the qualitative detection of ATP in the water.

## 3. Components

20 tests / bag, packed in foil pouch.

## 4. Instructions for use

- 1) Turning on luminometer before beginning testing, then allow ATP swab to equilibrate to room temperature before use. Holding swab tube firmly, twist and pull top of swab out of swab tube.
- 2) For water sample, submerge sample collection dipper in water sample for 1-2 seconds.
- 3) Lift sample collection device up vertically and reinsert in test tube.
- 4) To activate device, hold swab tube firmly and use thumb and forefinger to break valve by bending bulb forward and backward. Squeeze bulb twice, expelling all liquid down swab shaft.
- 5) Shake for 3-5 seconds to mix sample. Once activated, sample must be read in luminometer within 30 seconds.
- 6) Insert swab device into luminometer, close lid and press "Detection" to initiate measurements. Device should be measured within 15 seconds of activation.

## 5. Interpretation

The higher the RLU number, the more contaminated the sample.

It is required that you set predetermined pass/fail levels so that users of the system know what action is required once the result is known.

## 6. Safety and precautions

Components of ATP Swab do not pose any health risk when used in accordance with standard laboratory practice and procedures of this insert.

✧ ATP Swab devices are for one-time use. Do not reuse.

- ✧ Hold luminometer upright when measuring test devices.
- ✧ Hold ATP Swab test upright when activating.
- ✧ Read ATP Swab test within 15 seconds of activation.
- ✧ Keep ATP Swab test out of direct sunlight.

## 7. Storage and shelf life

This product can be stored at -4-0 °C for 12 months, and can be stored at -20 °C for 18 months.

## 8. References

- (1) Turner DE, Daugherty EK, Altier C, Maurer KJ. Efficacy and limitations of an ATP-based monitoring system. *J Am Assoc Lab Anim Sci.* 2010;49(2):190-195.
- (2) Alfa MJ, Olson N, Murray BL. Adenosine tri-phosphate (ATP)-based cleaning monitoring in health care: how rapidly does environmental ATP deteriorate? *J Hosp Infect.* 2015 May;90(1):59-65. doi: 10.1016/j.jhin.2015.01.020.



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