

## AquaSwab™

For use with the  
ATP Complete® Contamination Monitoring System

Item No. 345AS

**Monitors ATP Levels in Water as a Quality Cleanliness Indicator with Results in Only 15 Seconds!**

AquaSwab™ water testing devices are self-contained ATP tests for use with Ruhof ATP Complete® luminometers. Tests are used to monitor ATP levels in water as a quality cleanliness indicator. The specially formulated AquaSwab™ is a validated method for testing water quality throughout the Healthcare Environment. It is especially valuable in monitoring the cleanliness of Endoscopes and cannulated medical devices.\* AquaSwab™ measures both ATP contained within living cells and particulate matter (microbial ATP) as well as ATP dissolved in water (non-microbial or dead microbial ATP organisms, also referred to as biomass).

### HERE'S HOW IT WORKS:

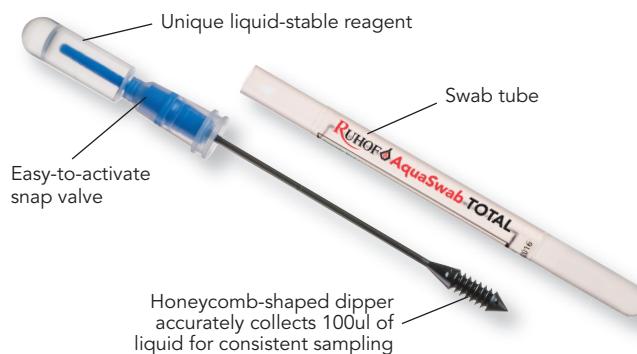
The Ruhof ATP Complete® Contamination Monitoring System detects Adenosine Triphosphate (ATP), the universal energy molecule found in all animal, plant, bacterial, yeast, and mold cells. Product residues, particularly blood and bioburden, contain large amounts of ATP. Microbial contamination contains ATP, but in smaller amounts. After cleaning, all sources of ATP should be significantly reduced.

When ATP is picked up by the tip of the AquaSwab™ and brought into contact with the unique, liquid stable luciferase/luciferin reagent in the AquaSwab™ tube, light is emitted in direct proportion to the amount of ATP present. The AquaSwab™ is then placed in the ATP Complete® hand held unit where it measures the amount of Relative Light Units (RLU) generated and displays the level of contamination present in just 15 seconds. The ATP Complete will detect 1/100,000th dilution of fresh blood, i.e. 0.2mg protein per swab.

The hand held unit can then be synced to a PC where the reading is down-loaded to an easy-to-use database management software for tracking the results. The software program can be used to run comparison charts and produce color trend analysis graphs and reports.

### Features

- All-in-one sampling device
- 15-month shelf life at refrigerated temperatures (36°F to 47°F) (2°C to 8°C)  
Check expiration date on label.
- 4 week shelf life at room temperatures (70°F) (21°C)
- Unique liquid-stable reagent
- Tolerant to temperature abuse and sanitizers



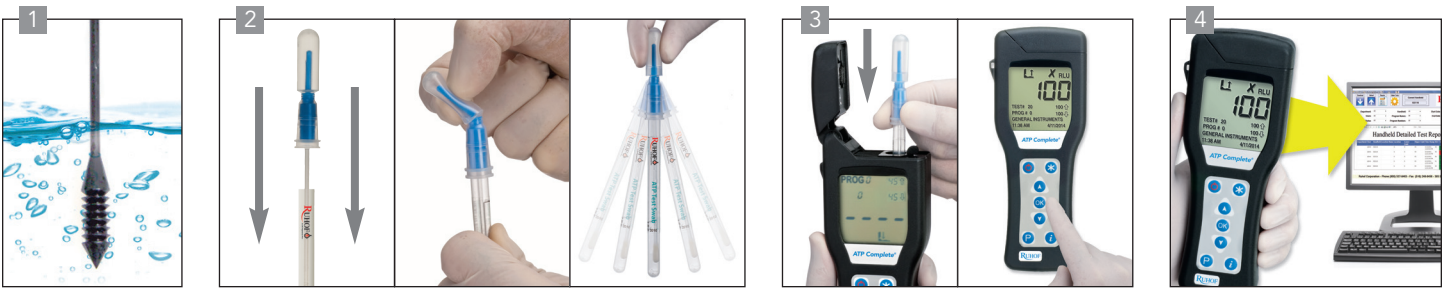
\*Directions for Endoscopes and Medical Devices can be obtained from your Ruhof Representative.

continued

## Directions for Use

1. Allow AquaSwab™ test devices to equilibrate to room temperature (21-25°C) before use. Forcefully flick device in a downward motion to shake liquid extractant from collection dipper to bottom of tube. Shaking liquid extractant to bottom of tube assists with accurate extraction of ATP and helps collect a more consistent sample. Holding swab tube firmly, twist and pull collection device out of tube. Submerge sample collection dipper in water sample for 1-2 seconds.
2. Lift sample collection device up vertically and reinsert in test tube. Gently shake device for 1-2 seconds to release water sample from collection tip and to mix sample with extractant at bottom of test tube.
3. Activate AquaSwab™ by holding tube firmly and using thumb and forefinger to break SnapValve by bending bulb forward and backward. Squeeze bulb twice, expelling all liquid into tube.
4. Shake for 3-5 seconds to mix sample.
5. Insert the AquaSwab™ tube into the Ruhof ATP Complete® hand held device, close and press the OK button. In 15 seconds the ATP Complete® device will display the amount of contamination detected.

Ruhof recommends setting RLU thresholds according to user's test application. Higher RLU results indicate higher contamination in sample. For Endoscope and Cannulated Medical devices where sterile water is flushed through the cannula and collected into a sterile cup the pass fail threshold is listed in the chart below. All testing is performed after manual cleaning and prior to HLD or Sterilization.



## Recommended Pass/Fail Criteria

Application	Recommended Pass/Fail Criteria	
	Pass (RLU)	Fail (RLU)
Water	0-25	26 and over

If you have a test failure please contact the manufacturer of the device being tested for advice on the best cleaning practice and products available that will help produce better outcomes.

### Safety & Precautions:

Components of AquaSwab™ do not pose any health risk when used correctly.

1. Check expiration date on label to be sure product is suitable for use.
2. Hold luminometer upright when measuring test devices.
3. Hold AquaSwab™ test upright when activating.
4. Read AquaSwab™ test within 15 seconds of activation.
5. Keep AquaSwab™ test out of direct sunlight.

### Ruhof Liability:

Ruhof will not be liable to user or others for any loss or damage whether direct or indirect, incidental or consequential from use of this device. If this product is proven to be defective, Ruhof's sole obligation will be to replace product or at its discretion, refund the purchase price. Promptly notify Ruhof within 5 days of discovery of any suspected defect and return product to Ruhof.