



## Clean-Trace™

## Product Instructions

### Surface ATP

#### Description:

The 3M™ Clean-Trace™ Surface ATP test is a single-use test device that contains a swab for the collection of a sample from a surface. The swab is pre-moistened with a cationic agent to aid in the collection of soil and the release of Adenosine Tri-Phosphate (ATP) from intact cells. Upon activation of the test, reagent in the cuvette of the test device reacts with ATP collected on the swab to produce light. The intensity of the light is proportional to the amount of ATP and therefore the degree of contamination. Measurement of the light requires the use of a 3M™ Clean-Trace™ NG Luminometer and the results are displayed in Relative Light Units (RLU). The test kit contains 100 ready to use test devices packaged as units of 10 per individual foil pouch.

#### Applications:

ATP is an indicator of organic residues and microorganisms. Detection of ATP is used to rapidly assess the standards of hygiene and sanitation procedures for surfaces and equipment.

#### ⚠ WARNINGS

Consult the Material Safety Data Sheet for additional information and local regulations for disposal.

#### ⚠ CAUTIONS

ATP is a common substance. It is present on skin, hair and on many surfaces. Do not touch the swab or the surface to be tested.

Do not use test devices past expiry date.

The 3M Clean-Trace Surface ATP test detects ATP and so will not detect residues of products with low or zero ATP present.

Although the 3M Clean-Trace Surface ATP test is very sensitive, a surface cannot be considered sterile on the basis of a 3M Clean-Trace Surface ATP test result.

Do not use the 3M Clean-Trace Surface ATP test in direct sunlight.

#### User Responsibility

Users are responsible for familiarizing themselves with product instructions and information. Visit our website at [www.3M.com/foodsafety](http://www.3M.com/foodsafety), or contact your local 3M representative or distributor for more information.

When selecting a test method, it is important to recognize that external factors such as sampling methods, testing protocols, sample preparation, handling, and laboratory technique may influence results.

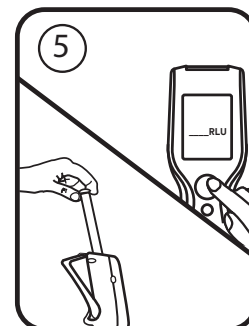
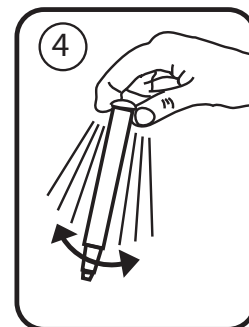
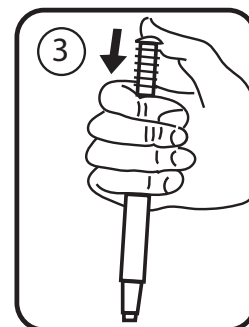
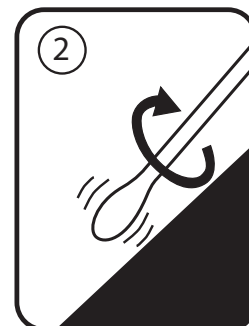
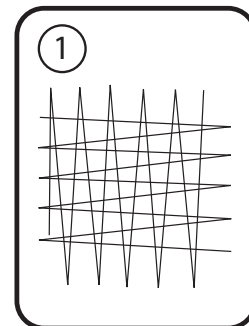
It is the user's responsibility in selecting any test method or product to evaluate a sufficient number of samples with the appropriate matrices and microbial challenges to satisfy the user that the chosen test method meets the user's criteria.

It is also the user's responsibility to determine that any test methods and results meet its customers' and suppliers' requirements.

As with any test method, results obtained from use of any 3M Food Safety product do not constitute a guarantee of the quality of the matrices or processes tested.

#### Limitation of Warranties / Limited Remedy

EXCEPT AS EXPRESSLY STATED IN A LIMITED WARRANTY SECTION OF INDIVIDUAL PRODUCT PACKAGING, 3M DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. If any 3M Food Safety Product is defective, 3M or its authorized distributor will, at its option, replace, or refund the purchase price of the product. These are your exclusive remedies. You must promptly notify 3M within sixty days of discovery of any suspected defects in a product and return it to 3M. Please call Customer Service (1-800-328-1671 in the U.S.) or your official 3M Food Safety representative for a Returned Goods Authorization.



## Limitation of 3M Liability

3M WILL NOT BE LIABLE FOR ANY LOSS OR DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS. In no event shall 3M's liability under any legal theory exceed the purchase price of the product alleged to be defective.

## Storage and Disposal

For maximum shelf life, store between 2°C - 8°C (36°F - 47°F). Alternatively, swabs are stable for 28 days when stored at room temperature; for this storage option do not exceed 21°C (70°F). Store in pouch until time of use. Expiry date and lot number are noted on each pouch.

## Instructions for Use

Before the 3M Clean-Trace Surface ATP test device is activated, it is important to ensure your 3M Clean-Trace NG Luminometer is switched on and initialized. Refer to the manual provided with the instrument for full details.

1. Place the 3M™ Clean-Trace™ Surface ATP tests at room temperature for at least 10 minutes before use. Immediately before use, remove the test device from the foil pouch. Grip the sample stick handle and remove the swab from the test device.
2. Swab the test area. Where practical, swab an area approximately 10 cm by 10 cm and swab the area in one direction and then swab the area in the opposite direction [figure 1]. Apply pressure on the swab and rotate the swab as the sample is collected to ensure repeatable and effective sampling [figure 2].
3. Re-insert the sample stick into the 3M Clean-Trace Surface ATP test device with the handle inserted to the original position of the unused test device. At this point you can either activate and measure immediately, or, if it is more convenient, the 3M Clean-Trace Surface ATP tests may be labeled, stored in the pouch, and left un-activated for up to four hours before activation and measurement.
4. To process the sample, push down firmly on the top of the 3M Clean-Trace Surface ATP sample stick handle [figure 3]. The handle will slide into the test device tube and the top of the handle should be level with the top of the test device tube when fully depressed. Grip the top of the test device and shake rapidly side-to-side for at least five seconds to mix the sample and reagent [figure 4].
5. Immediately open the sample chamber of the 3M Clean-Trace NG Luminometer and insert the 3M Clean-Trace Surface ATP test device. Close the chamber cap and press the measure button. The light emitted by the 3M Clean-Trace Surface ATP test will be measured and the result (in RLU) will appear on the display [figure 5].

How to best utilize 3M™ Clean-Trace™ Surface ATP	
Do	Do Not
Hold the 3M Clean-Trace Surface ATP test device in the VERTICAL position on activation and shake rapidly from SIDE TO SIDE for at least 5 seconds and read immediately in the 3M Clean-Trace NG Luminometer.	Activate when not in the vertical position, do not shake up and down, do not shake like a thermometer.
Replace the swab in the tube but do NOT activate the 3M Clean-Trace Surface ATP test device if test devices are to be taken back to another location for testing. Only activate when you are about to measure the test device.	Activate all 3M Clean-Trace Surface ATP test devices then take them to another location for testing or activate and leave on a surface to test one at a time.
Activate and measure 3M Clean-Trace Surface ATP tests ONE AT A TIME when a number of samples are to be measured.	Activate all 3M Clean-Trace Surface ATP test devices and then test one at a time.
Place the 3M Clean-Trace NG Luminometer in the vertical position when a measurement is made.	Hold the 3M Clean-Trace NG Luminometer horizontally or lay down on the bench to read a 3M Clean-Trace Surface ATP test device.
Always remove the last 3M Clean-Trace Surface ATP test device from the 3M Clean-Trace NG Luminometer chamber when the measurement is completed.	Leave a 3M Clean-Trace Surface ATP test device in the chamber when the measurement is completed.

## Interpretation

- The higher the RLU number, the more contaminated the sample.
- It is usual to set predetermined pass/fail levels so that users of the system know what action is required once the result is known.
- NOTE: Even a perfectly clean sample will not give a zero result as the instrument and 3M Clean-Trace Surface ATP test device has a "background" RLU level.

- The nature of the tested surface will also affect the results. For example, heavily scored surfaces will tend to provide higher results.

For detailed advice on interpretation of results and a full explanation of how to implement the technique, consult the “3M™ Hygiene Management Guide.” This system establishes reference levels obtained from normal cleaning procedures to set pass/fail 3M Clean-Trace Surface ATP readings.

## Explanation of Symbols



Attention, see instructions for use



The lot in a box and the hourglass symbols represent the lot number and expiry date. The lot in a box is followed by the lot number: (621/Y1). The hourglass is followed by a day, month and year which represents the expiry date (day, month and year: 21JUN 2012)



Store between given temperatures



Protect from direct sunlight