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-  (EN) Surface Protein Plus Test
-  (FR) Test Surface Protein Plus
-  (DE) Oberflächen Protein Plus Test
-  (IT) Test Surface Protein Plus
-  (ES) Test de Proteína para Superficie Plus
-  (NL) Oppervlakte eiwittest plus
-  (SV) Surface Protein Plus Test
-  (DA) Overflade Protein Plus Test
-  (NO) Proteintest til overflate
-  (FI) Surface Protein Plus Pintatesti
-  (PT) Teste de Proteína Plus de Superfície
-  (EL) Τεστ Επιφανειών Protein Plus
-  (PL) Test do wykrywania białek na powierzchni „Plus”
-  (HU) Felszíni Fehérje Plusz Teszt
-  (CS) Test Povrchový protein Plus
-  (RO) Proteine de suprafață Test Plus
-  (RU) Тест для определения белка на поверхности (протеин плюс)
-  (TR) Plus Yüzey Protein Testi
-  (JA) タンパク残留測定
-  (ZH) 表面蛋白质 Plus 采样棒



# Clean-Trace™ Test

# Product Instructions

## Surface Protein Plus Test

### Product Description and Intended Use

The 3M™ Clean-Trace™ Surface Protein Plus Test is a single-use device that detects protein from food residues and other sources. The 3M Clean-Trace Surface Protein Plus Test can also detect other reducing substances present in food residues. The test is time-dependent, i.e. the color develops with time, therefore disregard any color change after the 10 minute period. With higher levels of contamination, color may develop more rapidly - there is no need to continue timing once the color changes to purple. The test is temperature-dependent and therefore it is important to allow the test device to reach ambient temperature (15-25°C or 59-77°F) before performing the test. The 3M Clean-Trace Surface Protein Plus Test is not intended as a microbiological monitoring tool but may detect bacteria in excess of 10<sup>7</sup> cfu/test. The color may form on the swab more than the solution with certain types of soil. Record the strongest color change on the swab or in the solution as the end result. The 3M Clean-Trace Surface Protein Plus Test can be used to rapidly assess the standards of hygiene and sanitation procedures for surfaces and equipment.

### ⚠ Warnings

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

### ⚠ Cautions

Protein 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 the 3M Clean-Trace Surface Protein Plus Test past expiry date.

Do not store in direct sunlight.

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

There is minimal interference with most common sanitizers at normal concentrations. However high concentrations of alkaline cleaners may cause false negative results in some instances. Peroxide based disinfectants can cause a false positive color change reaction with the 3M Clean-Trace Surface Protein Plus Test.

### User Responsibility

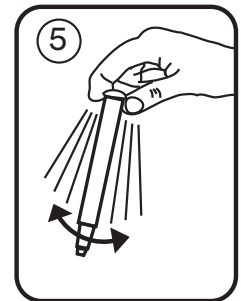
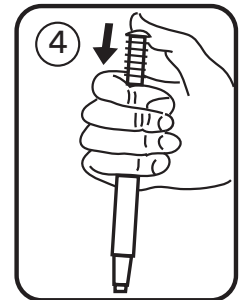
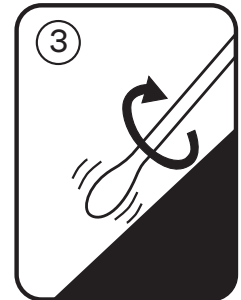
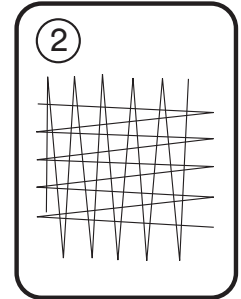
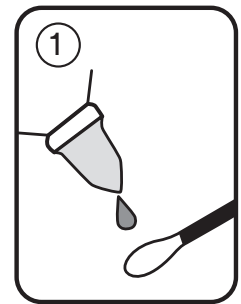
Users are responsible for familiarizing themselves with product instructions and information. Visit our website at [www.3M.com/foodsafety](http://www.3M.com/foodsafety), or contact your local 3M representative or distributor for more information.

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 2-25°C (36-77°F). Alternatively, swabs are stable for 14 days when shipped or stored at elevated temperature; for this storage option do not exceed 35°C (95°F). Expiry date and lot number are noted on each pouch. After use, may contain microorganisms that may be a potential biohazard. Follow current industry standards for disposal.

**Instructions for Use**

1. Place the 3M Clean-Trace Surface Protein Plus Test at room temperature for at least 10 minutes before use. Grip the sample stick handle and remove the swab from the device. On dry surfaces use the moisturizer provided and apply 4 drops to the swab OR apply 4 drops to the surface to be tested [figure 1]. Alternatively, the swab can be moistened by placing under a running tap of clean potable water.
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 2]. Apply pressure on the swab and rotate the swab as the sample is collected to ensure repeatable and effective sampling [figure 3].
3. Reinsert the sample stick into the test with the handle inserted to the original position of the unused test. At this point you can either activate and read immediately, or, if it is more convenient, the 3M Clean-Trace Surface Protein Plus Test may be labeled and left un-activated for up to four hours before activation and reading of multiple swabs simultaneously.
4. To process the sample, push down firmly on the top of the 3M Clean-Trace Surface Protein Plus Test sample stick handle [figure 4]. The handle will slide into the device tube and the top of the handle should be level with the top of the device tube when fully depressed. Grip the top of the device and shake rapidly side-to-side for at least five seconds to mix the sample and reagent [figure 5]. The solution will turn mint green.
5. Set a timer for 10 minutes and incubate the swabs at room temperature and in a vertical position. After the 10 minute time period, compare the color of the swab and the solution against the color chart on the 3M Clean-Trace Surface Protein Plus Test label.

<b>How to best utilize 3M Clean-Trace Surface Protein Plus Test</b>	
Do	Do Not
Hold the 3M Clean-Trace Surface Protein Plus Test in the VERTICAL position on activation and shake rapidly from SIDE TO SIDE for at least 5 seconds.	Activate when not in the vertical position, do not shake up and down, do not shake aggressively.
Incubate the 3M Clean-Trace Surface Protein Plus Test vertically.	Incubate the 3M Clean-Trace Surface Protein Plus Test horizontally.
Read the 3M Clean-Trace Surface Protein Plus Test at 10 minutes.	Record any color change after 10 minutes.



## Interpretation

The color of the test reaction will indicate the level of protein residues on the surface. By comparing the color produced against the 3M Clean-Trace Surface Protein Plus Test label an estimation of the surface cleanliness can be made.

- Green indicates a Pass result - Clean, No further action required
- Grey indicates a Caution result - Re-rinse
- Purple indicates a Fail result - Re-clean & Re-test

For further information, contact 3M Food Safety Technical Services.

## Explanation of Symbols

[www.3M.com/foodsafety/symbols](http://www.3M.com/foodsafety/symbols)

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