

CleanTrust Surface Protein Allergen Test Swab Manual

Part Number: PRA0200

Overview

The CleanTrust surface protein allergen test swab is a ready to use rapid test swab with high sensitivity, used to detect protein residues on surface, and thereby determine if cleaning has been effective in eliminating proteins, including potentially allergenic proteins. After smearing the surface of the object, if protein is present, the solution will change from green to purple. The faster and darker the color change, the higher the protein content. It is important to note that a residue may contain a mixture of allergenic and non-allergenic proteins, as well as non-protein materials.

Detection Sensitivity

5ug of protein at incubation for 15 minutes at 37°C.

Important Tips and Notes Before Starting the Test

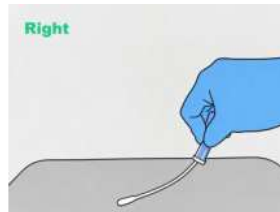
- 1) Allow the Surface Protein Allergen Test Swab to reach ambient temperature (21°C-25°C) before performing the test.
- 2) The swab tip is pre-moistened for maximum sample collection.
- 3) Condensation may be visible on the inside of the swab tube, this is normal.
- 4) Protein is a common substance that exists on skin, hair and many object surfaces. Do not directly touch the inside of the swab or the surface to be tested with your hands.
- 5) Surface Protein Allergen Test Swab is designed to detect invisible/trace amounts of residue. Overloading the swab with physical matter by swabbing a visibly dirty surface will inhibit the reaction and produce inaccurate results.
- 6) It is best practice to wait an appropriate time after sanitizing before testing a surface with Surface Protein Allergen Test Swab.
 - Sanitation is typically a two-step process involving detergent cleaning and subsequent (optional) disinfection. To ensure the best results, collect the surface Protein Allergen Test Swab sample after the detergent and rinsing steps, but before any terminal disinfection. Product residues left on a surface after detergent cleaning reduce the effectiveness of disinfection. Testing before disinfection prevents wasted chemicals and time and ensures optimum test performance in a food safety program.
 - If testing before disinfection is not possible, observe proper dwell time before using Surface Protein Allergen Test Swab.
- 7) Common sanitizers at normal concentrations do not cause interference or false-positive results. However, high concentrations of alkaline sanitizers may cause false-negative results in some cases. Peroxide-based disinfectants can also cause a false-positive color change reaction.

Operation Procedure

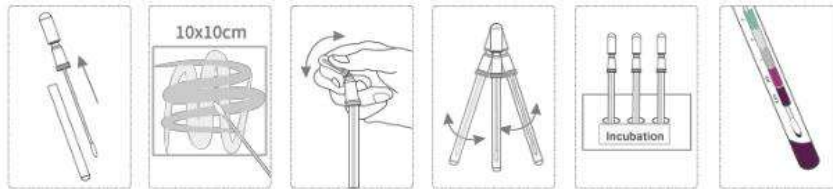
- 1) Take out the swab: Holding the swab tube firmly, twist and pull the top of the swab out of the tube (Do not pull the tube straight out!)
- 2) Swab sampling: Thoroughly swab a standard area of 10 × 10 cm (4 × 4 inches) using a zigzag wiping method, after sampling is completed, place the swab back into the swab tube.

Important swabbing technique tips:

- Wipe the surface of the object evenly in a zigzag pattern, including vertically, horizontally, and diagonally in both directions.
- For irregular surfaces, maintain a consistent swabbing technique during each test; swab a large enough area to collect a representative sample.
- Rotate the swab while collecting the sample to maximize sample collection on the swab tip.
- Apply sufficient pressure to create flex in the swab shaft (As shown below) .



- 3) Activate the swab: Hold the swab tube firmly and use your thumb and forefinger to break the Snap-Valve by bending the bulb forward and backward, squeeze the bulb twice to expel all the liquid down the swab shaft.
- 4) Mix and shake: Shake vigorously for 10 seconds to fully mix the collected sample with the liquid.
- 5) Sample Detection: Incubate at 37°C for 15 minutes.
- 6) Record the results: Compare the color of the solution in the swab tube with the color chart on the swab tube label and record the results.



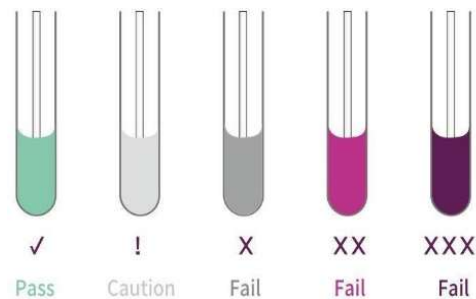
Interpretation of Results

The speed and depth of the color change of the protein swab solution reflect the amount of protein residue on the test surface. The more protein collected, the quicker and darker the color change. For specific color determination, compare the liquid color with the color chart on the label of the Surface Protein Allergen Test Swab tube. Results can be interpreted with reference to Table 1.

Notes: Do not base the test results on any color observed on the swab tip.

Table 1. Interpretation of Color Change Results

Color	Result	Interpretation and action
Green	Pass	No further action is required
Greyish- Grey	Caution	Caution. A small amount of protein residue is present, repeat testing or test after cleaning.
Grey	Fail	Not clean, repeat cleaning and testing
Purple	Fail	Large amount of protein content, repeat cleaning and testing



Storage and Shelf Life

Store at 2°C-25°C up to 12 months, Or 2°C-8°C up to 2 months if package opened. Once the foil package is opened, store unused swab in the refrigerator in the resealed foil package.

Safety and Precautions

- Do not use the product beyond its expiration date.
- Surface Protein Allergen Test Swabs are for one-time use. Do not reuse.
- Components of Surface Protein Allergen Test Swabs do not pose any health risk when used in accordance with standard laboratory practices and procedures of this insert.
- Surface Protein Allergen Test Swabs are made of 100% recyclable plastic and may be discarded accordingly.



1295 Morningside Avenue, Unit 16-18
 Scarborough, ON M1B 4Z4 Canada
 Phone: 416-261-4865 Fax: 416-261-7879
www.scigiene.com