



Microbial Test

The Benefect Microbial Test is a ready-to-use rapid protein residue detection test. A quick swab will establish whether proteins from molds, fungi or bacteria exist on a surface. It will turn from green to purple if protein is present in the sample. The more protein collected in the sample, the quicker and darker the color change. There is no need to continue timing if surface is dirty and the color changes to purple within 10 minutes. This test is dependant on time and temperature; therefore, it is important to let the device be an ambient temperature (15-25°C / 59-77°F) before testing. Disregard any color change after 10 minutes.

The Benefect Microbial Test is intended to provide rapid validation of protein contamination levels on surfaces. It can also serve as a simple test for bacteria and mold. It is important in any sampling program to establish a consistent and easy-to-replicate sampling procedure.

Clean:

Use an appropriate cleaner such as Benefect's Atomic Degreaser or Multi-Purpose Cleaner to clean the contaminated surface. Products should always be used according to their label directions.

Disinfect:

Disinfect the surface with Benefect Botanical Disinfectant. Wait at least 10 minutes after the surface has dried before swabbing.

Note: High concentrations of alkaline or acid based sanitizers & disinfectants may cause false-negative results in some cases. Peroxide based disinfectants can cause a false-positive color change reaction.

Directions for Use:

1. When collecting a sample, make sure to use aseptic techniques. Do not touch the swab or the inside of the sampling device with fingers. Holding the swab tube, twist and pull the top of the swab out of the swab tube. The swab tip comes pre-moistened with a detergent. Condensation may be visible on the inside of the swab tube but this is normal. Thoroughly swab a standard 4" x 4" (10 x 10 cm) area of interest for a typical flat surface. For irregular surfaces, ensure the swabbing technique remains consistent for each swab and sample a large enough area to collect a good sample.

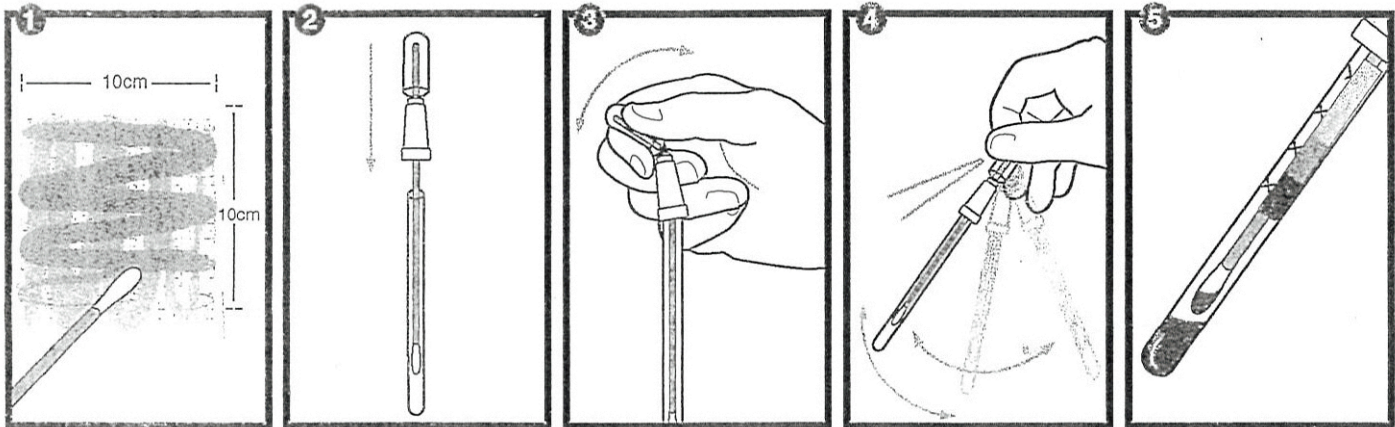
Tip: The test is designed to detect invisible or trace amounts of protein residue on a cleaned surface. When performing sample collections, it is important to make sure not to overload the swab bud with too much sample as a very high concentration can inhibit the reaction.

2. After swabbing the desired test area, place the swab back in the swab tube.

3. To activate the device, 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, expelling all liquid down the swab shaft.

4. Bathe the swab bud in liquid by gently shaking for 5-10 seconds.

5. Wait 10 minutes for color change from green to purple. Most color change happens in less than 60 seconds. After 10 minutes compare the color of the reagent against the color chart on the swab label and record the result.



Interpreting the Results:

The color of solution and the time in which the color change takes place will indicate the level of protein residue on the surface. By comparing the color of the solution against the chart on the swab label, an estimate of the surface cleanliness can be made.

GREEN indicates a PASS result = surface is clean and no further action is required.

GREY indicates a CAUTION result = a small amount of residue is present. Reclean and retest the surface.

PURPLE indicates FAIL result = Reclean and retest.

Sensitivity:

-50ug

-Enhanced sensitivity by incubating at 98.6°F (37°C) for 30 minutes.

Storage:

18 months at room or refrigerated temperatures 35-77°F (2-25°C)

There are no health risks associated with this product.

Sensible Life Products

Creators of Benefect

7 Innovation Drive,

ON CA L9H 7H9

www.Benefect.com (905) 690-7474