

# FLASH® RT Allergen Indicator Total Protein Test (for Room Temperature Incubation)

Part No. 63003-100

## General Description

FLASH® RT is a room temperature-incubated total protein test that rapidly detects protein residues left on food contact surfaces after cleaning. Used as part of a HACCP allergen control program, FLASH® RT supports process verification requirements that ensure cleaning methods, validated to effectively remove allergens, are consistently applied. FLASH® RT has been tested against common allergenic proteins including soy flour, gluten flour, milk powder, egg powder, peanut butter, roasted almonds, raw fish (cod), and raw shrimp.

## Kit Components

**100 protein swabs**  
(for Room Temperature  
incubation)  
**30 color comparison  
stickers**

## ⚠ Important Usage Guidelines

- This FLASH® RT kit allows for visual color detection of total protein after 10 ±4 minutes incubation at ambient room temperature.
- This FLASH® RT kit provides total protein detection down to 20 µg. The sensitivity level is based on validation using a reference standard (BSA) that is 100% protein.
- Refer to the FLASH® RT Method Summary for further sensitivity data by protein product, which can vary in percentage protein.

## Test Procedure

### 1. Collecting Sample

- a. Twist to remove pre-moistened swab from collection tube. Be careful not to touch the tip or inside the sampling device with fingers.
- b. Thoroughly swab a standard 10 x 10 cm (4 x 4 in) area of interest for a typical flat surface. For irregularly shaped surfaces, ensure swabbing technique remains consistent each time you swab. Reinsert the swab into the collection tube using a twisting motion to ensure it is sealed.

**Note: After sampling, the swab is stable for up to 1 hour prior to activation. If more than 1 hour has elapsed, discard the swab and start over.**

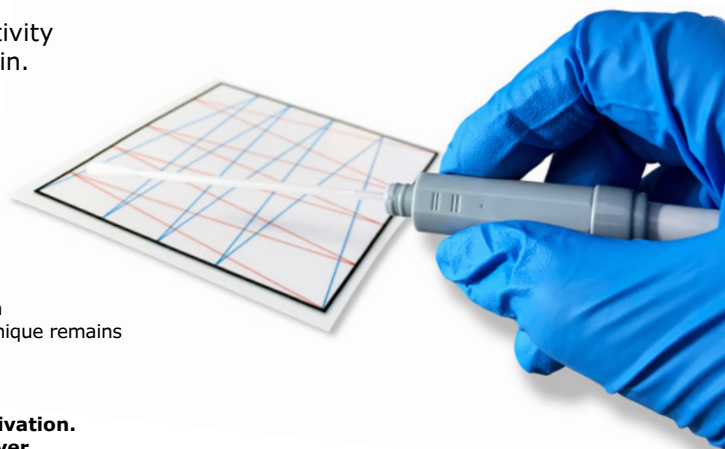
### 2. Activating Swab

- a. To activate the swab, hold upright. Using your thumb, press firmly down on the plunger until it is fully depressed. The reagents will be dispensed down through the swab shaft uniformly releasing the sample off the swab tip and into the bottom of the collection tube.
- b. Shake the swab side-to-side for 5 seconds to ensure the entire sample has been rinsed from the swab tip and reagents are thoroughly mixed in the bottom of the collection tube.

**Note: Confirm swab tip is fully immersed in reagent solution. If not fully immersed, shake swab again for 5 more seconds.**

### 3. Incubating the Swab at Ambient Room Temperature

- a. Immediately following activation and shaking, place swabs in a tube holder or other accessory to keep swab upright.
- b. Set timer for 10 minutes and check color result in reagent solution immediately following timer alarm (or no more than 4 minutes afterward).



## Interpreting Results

Consult the color comparison chart (below or on the swab pouch label) or use the color comparison stickers included in each kit to label the swabs or data record sheets for convenient interpretation.

**Note: Result should be read at 10 minutes precisely, but never more than 14 minutes maximum. Any further color changes after 14 minutes are invalid and must be disregarded.**

When protein is present on a surface, the swab's liquid will change from green to purple. The intensity and pace of the color change is dependent on the level of protein in the sample.

**GREEN:** Pass result. No further action is required.

**GRAY/CLEAR:** Warning range. Trace amounts of protein detected. Reclean and re-test in accordance with internal procedures.

**PURPLE:** Protein is present. Re-clean and re-test.



**Note: In remote instances, purple may appear within the swab shaft or on the swab tip itself. This occurrence, while extremely rare, is possible but does not affect accuracy or result interpretation.**

Results may be available in as little as 60 seconds, but a full 10 minutes must be allotted to confirm true negative (Pass) results. If the reagent solution remains green at 10 minutes, less than 20 µg of protein has been detected.

## Swab Negative Controls

A negative control is an unused, unsampled FLASH® RT swab that has been activated. After removing a swab from the storage pouch, keep the collection tube on. Hold swab upright, activate, shake for 5 seconds, and read at 10 minutes.

- Negative control results should appear as any shade of green, gray or clear. Gray or clear results are acceptable for Negative Control readings because no swab sampling has occurred.
- Should a negative control result in the reagent solution being a purple color, repeat the Negative Control test.

For questions or assistance, contact Technical Service at **1-800-325-5832** or go to **sigmaldrich.com** and select **24/7 SUPPORT**.

## Precautions

- Do NOT use device if accidental activation occurs prior to sampling.
- Always hold swab upright when activating and keep upright while waiting for result.
- '63003BC' SDS available on sigmaldrich.com.

## Storage

- 2–30 °C (36–86 °F).
- Protect from direct sunlight.
- Ensure foil pouch is tightly re-sealed after each use. This will prevent the moistened tips from drying out prematurely.

## Manufacturing Entity

BioControl Systems, Inc, 12822 SE 32<sup>nd</sup> St, Bellevue, WA 98005, USA.

BioControl Systems, Inc is an affiliate of Merck KGaA, Darmstadt, Germany.

## To place an order or receive technical assistance

In the U.S. and Canada, call toll-free 1-800-245-0113

For other countries across Europe and the world, please visit: **SigmaAldrich.com/offices**

For Technical Service, please visit: **SigmaAldrich.com/techservice**

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