

Instructions for use



ROTITEST®Protein

ROTITEST®Bio Analysis

Ready-to-use. Rapid protein residue detection system for hygiene control and testing of cleaning efficiency in the field of food and beverage industry, or any other surface.

A. Introduction

Being an all-in-one system, ROTITEST®Protein includes an integrated swab for probing of the respective surface, as well as an appropriate detection solution. ROTITEST®Protein will turn from yellow/orange to blue/green if protein is present in the sample, hence on the samples area. The more protein collected in the sample, the quicker and darker the colour change. ROTITEST®Protein is intended to provide rapid validation of hygiene levels of a surface and show due diligence in a HACCP program (Hazard Analysis and Critical Control Points). Sanitation is usually a two-step process involving a detergent cleaning and subsequent (optional) disinfecting step. Testing with ROTITEST®Protein may be performed after the initial cleaning as well as after the disinfectant step.

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5 • 76185 Karlsruhe
P.O. Box 100121 • 76231 Karlsruhe
Phone: +49 (0) 721/ 5606-0
Fax: +49 (0) 721/ 5606-149
info@carlroth.com • www.carlroth.com

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The company is a limited partnership with headquarters in Karlsruhe, reg. court Mannheim HRA 100055. Roth Chemie GmbH, with headquarters in Karlsruhe, reg. court Mannheim HRB 100428, is the personally liable partner. Managing Director: André Houdelet. Sales tax identification number: DE 143621073.

B. Interference / False Results

ROTITEST®Protein will also detect other reducing substances such as simple sugars, tannin and ascorbic acid. Sanitizers at normal concentrations do not cause interference or false positives. High concentrations of alkaline sanitizers may cause false-negative results in some cases. Peroxide based disinfectants can cause a false-positive colour change reaction.

It is best practice to wait for the appropriate time after sanitizing before testing the surface, in order to let residual sanitizers evaporate.

C. Application

We recommend to establish a consistent and easy-to-replicate sampling procedure.

1. Screw the swab out of its device. The swab itself is dry to assist in sample collection. Take a sample by swabbing an area of approx. 10x10 cm or for unusual surfaces swab enough area to collect enough sample material. Apply sufficient pressure during swabbing to ensure good collection. Take care not to touch swab tip to anything else but surface being tested.
2. Screw swab back into swab tube
3. Pullout the virgin – seal tape from the body but do not remove completely. By pushing the reactive cap into the lower body the solution will come into contact with the sample at the swab-tip
4. Swing the swab in reagent by gently shaking for a few seconds.
5. Wait 2 mins. for colour change from yellow/orange to green/blue. Then estimate colour of reagent by comparison with lid, judge result using the table given below, and record result.

D. Assay Results


Most colour changes take place in less than 60 seconds, but results should be monitored only after full 2 mins. The colour of the solution and the time in which the colour change takes place will indicate the level of protein residues on the surface. By classifying the colour of the solution, an estimation of the surface cleanliness can be made.

Colour	Time Span	Cleanliness
Yellow / Orange	Full 2 mins.	Clean, no further action required
Slightly green	Full 2 mins.	Caution, small amount of residue present. Rinse or reclean depending on protocol, then retest.
Green	Starting in first 60 secs, still slowly darkening after 2 mins.	Caution, significant amount of residue present. Rinse or reclean depending on protocol, then retest.
Dark green / blue	Already after 60 or less secs.	Heavy contamination still present ! Reclean thoroughly and then retest.

Please note: ROTITEST®Protein is NOT intended for quantifying of contaminations.

E. Storage

Store at 15-25° C in a dark place. Do not freeze.

 Warning H226-H319 P280-P305+P351+P338-P337+P313

ROTITEST®Protein 4803.1 20 pieces