

## Instructions for use



### ROTITEST® Coliform

#### ROTITEST® Bio Analysis

Simple test system for detection, or exclusion, of coliform contamination on surfaces. Optimal for hygiene monitoring and for minimisation of the contamination risk caused by coliforms in general, particularly *E. coli*.

#### A. Introduction

*Escheria coli* and Coliforms are traditionally used as indicator organisms for faecal contamination in water and other environmental samples. Detection of these organisms usually points to poor hygiene at some stage in the production process or pollution of water at source. ROTITEST® Coliform is designed for use alongside traditional selective methods to improve the quality system and minimise the risk of coliform contamination. This simple-to-use test can be applied anywhere in the environment where the presence of coliforms would be critical.

#### B. Mechanism

ROTITEST® Coliform works on an enhanced Lactose-Peptone media formulation with bromocresol purple as indicator, shifting from brown-red / purple to yellow when the pH value is lowered due to lactose fermenting by coliforms. ROTITEST® Coliform has been sterilised by irradiation.

#### C. Application

We recommend to establish a consistent and easy-to-replicate sampling procedure. In order to gain comparable results, the technique used for swabbing and the size of the area swabbed have to be the same for every assay.

1. Peel back wrapper to expose both caps.
2. Remove swab and sample test site by rubbing swab over as large an area as practicable.
3. Remove cap of culture tube with thumb and forefinger and discard.
4. Insert swab in culture tube and push down fully to immerse the swab completely.
5. Note time, date and site details.
6. Incubate at 37 °C for 18-24 h.

#### D. Assay Results

A positive result is indicated by a colour change of the agar from red-brown / purple to yellow. Negative result shows NO colour change. Any colour change is significant. The respective area has to be carefully cleaned and reprobod. Samples may have to be analysed further by trained personnel for species determination. *Please note:* This test system only allows exclusion, or affirmation, of a coliform contamination *per se*. Quantitation is NOT possible.

Organism	Colour change
<i>Escherichia coli</i> NCTC 9001	yellow
<i>Streptococcus faecalis</i> NCTC 0775	-
<i>Proteus mirabilis</i> NCTC 11981	-
<i>Staphylococcus aureus</i> NCTC 8532	-

#### E. Disposal of Tubes

All tubes have to be decontaminated by autoclaving or other appropriate sterilization processes.

The lid of the tube **MUST NOT** be removed after incubation of the sample.

#### F. Storage

Store at 16-25 °C in a dry place. Do not freeze.

#### 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 ip 07/2021

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.

**ROTITEST® Coliform**  
25 pieces

4806.1