

# BacTrace® Antibody Goat anti-*E. coli* O103 Unlabeled



<u>Catalog No.</u>	<u>Size</u>
01-95-93	1.0 mg
011-95-93	0.1 mg

## DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with *E. coli* O103.

## FORM/STORAGE

Lyophilized. Store at 2-8 °C until rehydrated. Stable for a minimum of 1 year when stored at 2-8 °C.

## STABILIZER AND PRESERVATIVE

No stabilizers or preservatives added. Non-sterile.

## ANTIBODY CONCENTRATION

The quantity of affinity purified antibody is either 1.0 mg or 0.1 mg as determined by UV absorbance at 280 nm.

## SPECIFICITY/CROSS REACTIVITY

Tested by ELISA techniques as applicable. This product reacts specifically with *E. coli* O103. This antibody is known to cross-react strongly with *Citrobacter freundii* due to a pervasive and shared surface antigen. As a confirmatory test, *E. coli* O103 and *Citrobacter freundii* can be easily distinguished from one another by culturing on chromagenic nutrient agar such as BD™ CHROMagar™ Orientation Medium.

## REHYDRATION AND STORAGE

Two methods for rehydration and storage are recommended to meet most needs. Procedure A, using 50% glycerol, is preferred. It eliminates freezing at -20°C and is an effective biological inhibitor. At a working dilution, the level of glycerol is too small to affect most assays.

### Procedure A: 50% Glycerol

Solution Preparation: Rehydrate with 1 mL of 50% glycerol.

Rehydration: Transfer 1 mL of the 50% glycerol solution to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Antibody concentration will then be 1.0 mg/mL or 0.1 mg/mL.

Storage: The rehydrated product is stable for a minimum of 1 year at 2-8 °C.

### Procedure B: Acetic Acid/Bi-Carbonate

Solution Preparation: Prepare immediately before use:

0.01M Acetic Acid Solution: Mix 25 µL of glacial acetic acid and 40 mL reagent quality water.

0.177M Carbonate-Bicarbonate Solution: Dissolve 1.09 g of Na<sub>2</sub>CO<sub>3</sub> and 0.63 g of NaHCO<sub>3</sub> in 100 mL reagent quality water.

Rehydration: Add 0.1 mL of 0.01M acetic acid to 1 mg of antibody. Rotate vial until totally dissolved. Add 0.1 mL of the carbonate-bicarbonate solution and rapidly mix to obtain a clear or opalescent solution. Heat at 37 °C for 30 minutes and allow to slowly cool to room temperature. Final concentration is 5.0 mg/mL or 0.5 mg/mL.

Storage: This product may be stored for up to one week at 2-8 °C; thereafter, it should be stored at -20 °C. At -20 °C, product is stable for a minimum of 1 year.

## SUGGESTED WORKING DILUTIONS

Optimal working concentrations should be determined experimentally. Prepare working dilution in PBS or other buffer immediately before use. Dilution is not recommended for long-term storage. Suggested dilutions are listed below. In many cases, the antibody may be diluted further than indicated:

Capture Antibody: 10 µg/mL  
Primary Antibody: 1 – 2 µg/mL

## PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by The Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Dispose of via institutional guidelines.

## RELATED PRODUCTS

<i>E. coli</i> O103:H8 Pos. Control	Cat. No. 50-95-93
<i>E. coli</i> O157:H7 Unlabeled Antibody	Cat. No. 01-95-90
<i>E. coli</i> O111 Unlabeled Antibody	Cat. No. 01-95-91
<i>E. coli</i> O26 Unlabeled Antibody	Cat. No. 01-95-92
<i>E. coli</i> O103 Unlabeled Antibody	Cat. No. 01-95-93
<i>E. coli</i> O145 Unlabeled Antibody	Cat. No. 01-95-94
<i>E. coli</i> O121 Unlabeled Antibody	Cat. No. 01-95-95
<i>E. coli</i> O45 Unlabeled Antibody	Cat. No. 01-95-96
BacTrace Antibody Labeled with DyLight 488, HRP or Biotin	Inquire
BSA Diluent/Blocking	Cat. No. 50-61-00
10X Coating Solution Concentrate	Cat. No. 50-84-00
20X Wash Solution	Cat. No. 50-63-00
10X PBST	Cat. No. 51-14-01
10X TBST	Cat. No. 51-18-01

## Affinity Purified Antibody To *E. coli* O103

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