

BacTrace[®] Antibody
Goat anti-*E. coli* O103
Peroxidase Labeled



Catalog No. **Size**
04-95-93 **0.1 mg**

DESCRIPTION

Affinity purified antibody isolated from a pool of serum from goats immunized with *Escherichia coli* O103 was labeled with peroxidase by the periodate method of Nakane and Kawaoi (1).

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

Goat serum is added as a protein stabilizer. No preservative added. Additional biological protection may be provided with 0.1% Microcide-III. DO NOT USE SODIUM AZIDE. Non-sterile.

ANTIBODY CONCENTRATION

The concentration of affinity purified antibody is 0.1 mg as determined by UV absorbance at 280 nm.

E/P RATIO

Molar enzyme/antibody protein ratio = 4:1.

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

Note: Rehydration of antibodies in TBS or buffers other than those listed here is not recommended.

Procedure A

Rehydration: Rehydrate with 1 mL of 50% glycerol. Rotate the vial until the lyophilized pellet is totally dissolved.

Storage: This product may be stored either refrigerated or frozen as desired. Stable for a minimum of one year.

Procedure B

Rehydration: Rehydrate with 1 mL of reagent quality water. Rotate the vial until the lyophilized pellet is totally dissolved.

Storage: This product may be stored for up to 1 week refrigerated; thereafter, it should be stored frozen. Stable for a minimum of 1 year at -20 °C.

SUGGESTED WORKING DILUTIONS

Optimal working concentrations should be determined experimentally. Prepare working dilution in TBS or other solution such as 1X Detector Block or 1% BSA Diluent Block (see RELATED PRODUCTS) immediately before use. These buffers are not recommended for long term storage.

Suggested starting dilutions are as follows. In many cases, the antibody may be diluted further than indicated.

ELISA:

1:1000 - 1:5000 0.1 µg/mL - 0.02 µg/mL

Blotting:

1:1000 - 1:5000 0.1 µg/mL - 0.02 µg/mL

Histo/Cytochemical Procedures:

1:50 - 1:500 2.0 µg/mL - 0.2 µg/mL

REFERENCES

1. Nakane, PK., and Kawaoi, A. (1974). *J. Histoche. Cytochem.* 22:1084.

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. Disposal via sanitary sewer.

RELATED PRODUCTS

<i>E. coli</i> O103:H8 Positive 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
10% BSA Diluent/Blocking Solution	Cat. No. 50-61-00
5X Detector Block Solution	Cat. No. 71-83-00
Wash Solution Concentrate	Cat. No. 50-63-00
SureBlue 1-Component Substrate	Cat. No. 52-00-01
LumiGLO Chemiluminescent Substrate	Cat. No. 54-61-02

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