

**BacTrace<sup>®</sup> Antibody  
Goat anti-*E. coli* O45  
Peroxidase Labeled**



**Catalog No.**            **Size**  
**04-95-96**                **0.1 mg**

**DESCRIPTION**

Affinity purified antibody isolated from a pool of serum from goats immunized with *Escherichia coli* O45 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* O45.

**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> O45:H2 Positive Control	Cat. No. 50-95-96
<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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