

**BacTrace®**  
***E. coli* O45:H2**  
**Positive Control**



**Catalog No.**  
**50-95-96**

**Size**  
**1 vial**

**DESCRIPTION**

Heat-killed *Escherichia coli* O45:H2 cells in dextran solution. Lot specific cell counts can be obtained by requesting a Certificate of Analysis or by calling Technical Services with the specific lot number.

**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**

Dextran is added as a stabilizer. Non-sterile.

**REHYDRATION AND STORAGE**

Two methods for rehydration and storage are recommended to meet most needs. Procedure A, using 50% glycerol, eliminates freezing at -20 °C and is an effective biological inhibitor when the product is stored at 2 – 8 °C. At a working dilution, the level of glycerol is too small to affect most assays.

**Procedure A: 50% Glycerol**

Rehydration: Rehydrate with 1 mL of 50% glycerol.

Storage: This product may be stored refrigerated or frozen. Product is stable for a minimum of 1 year.

**Procedure B: Reagent Quality Water**

Rehydration: Rehydrate with 1 mL of reagent quality water.

Storage: This product may be stored refrigerated or frozen. Product is stable for a minimum of 1 year.

**SUGGESTED WORKING CONCENTRATION**

Use: Prior to use, dilute to desired concentration with PBS or 1% BSA Diluent/Blocking Solution. The working dilution should be used immediately.

Optimal working concentrations should be determined experimentally. Suggested starting concentrations are as follows:

|                                    |       |
|------------------------------------|-------|
| Antibody Sandwich ELISA            | 1/100 |
| Direct ELISA                       | 1/100 |
| Direct Fluorescent Assay on Slides | 1/200 |

**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.

**APPLICATION**

This product is ideally suited for use as a positive control in immunoassays designed for the detection of *E. coli* O45. It provides verification of the functionality of the assay system.

**RELATED PRODUCTS**

|                                |                   |
|--------------------------------|-------------------|
| Goat anti- <i>E. coli</i> O45  | Cat. No. 01-95-96 |
| BSA Diluent/Blocking Solution  | Cat. No. 50-61-00 |
| Coating Solution Concentrate   | Cat. No. 50-84-00 |
| Fluorescent Mounting Medium    | Cat. No. 71-00-06 |
| 20X Wash Solution              | Cat. No. 50-63-00 |
| Goat anti- <i>E. coli</i> O26  | Cat. No. 01-95-92 |
| Goat anti- <i>E. coli</i> O111 | Cat. No. 01-95-91 |
| Goat anti- <i>E. coli</i> O103 | Cat. No. 01-95-94 |
| Goat anti- <i>E. coli</i> O121 | Cat. No. 01-95-95 |
| Goat anti- <i>E. coli</i> O45  | Cat. No. 01-95-93 |

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