

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



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

**Size**  
**1 mL**

**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 for up to 1 week refrigerated; thereafter, it should be stored frozen. When 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 for up to 1 week refrigerated; thereafter, it should be stored frozen. When 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

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Nothing disclosed herein is to be construed as a recommendation to use this product in violation of any patents. The information presented above is believed to be accurate. However, said information and product are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. We cannot be responsible for patent infringements or other violations that may occur with the use of this product. No claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims regarding product performance must be made within 30 days following date of delivery.

**Limited Use License**

The purchase of this product conveys to the buyer the non-transferable right to use the product in research conducted by the buyer. The buyer cannot sell or otherwise transfer this product or materials made by use of this product to a third party or otherwise use this product or materials made with this product for Commercial Purposes without written approval of KPL, Inc. For additional information, please visit [www.kpl.com](http://www.kpl.com) or the KPL catalog. To obtain a license or approval to use this product for purposes other than those permitted above, contact Director of Sales at (301) 948-7755.