

**BacTrace®**  
**Anti-*E. coli* O45**  
**Latex Beads**



**Catalog No.**  
**082-02-95-96**

**Size**  
**1.0 mL**

**DESCRIPTION**

BacTrace Anti-*E. coli* O45 Latex Beads are navy blue latex beads coated with KPL's BacTrace Anti-*E. coli* O45 antibody (Cat. No. 01-95-96). This antibody is specific for *E. coli* O45. Latex conjugates can be utilized as a tool in agglutination assays. Agglutination assays are rapid tests often used in tandem with other bacteria identification assays to confirm the presence of specific bacteria in a sample.

**FORM/STORAGE**

Suspension. One vial provides enough material to perform 50 agglutinations. Store at 2-8 °C. **DO NOT FREEZE!** Stable for a minimum of 1 year from date of receipt when stored at 2-8 °C.

**STABILIZER AND PRESERVATIVE**

Bovine Serum Albumin (BSA) is added as a stabilizer. 0.02% sodium azide is added as a preservative. Non-sterile.

**MATERIALS REQUIRED BUT NOT PROVIDED**

Sterile PBS  
Positive control  
Agglutination plates or slides

**SUGGESTED PROTOCOL**

(Results may vary based on how the bacteria are procured and treated).

**PLEASE NOTE: Working with pathogenic bacteria requires that certain safety measures be followed. Please follow all required aseptic techniques, as well as good laboratory practice. Endeavor to avoid aerosol formation, and perform necessary work in a biosafety cabinet. All contaminated materials should be autoclaved or disinfected prior to disposal. Follow all pertinent regulations.**

**VORTEX BEADS THOROUGHLY PRIOR TO USE!**

1. Select one colony from an agar plate, and resuspend in 100 µL of sterile PBS.
2. Prepare 20 µL serial dilutions in sterile PBS from the initial 100 µL sample.
3. Add each dilution to the sample card or slide.
4. After vortexing, add 20 µL of latex beads to each sample.
5. Rock gently for up to five minutes.
6. Observe for agglutination.

**PLEASE NOTE:**

1. **At large concentrations of bacteria, a false-negative (prozone) effect may be observed.**
2. **If beads appear aggregated in the negative control, sonicate before further use.**

**REFERENCES**

Medina, M., *et al.* Latex Agglutination Assays for Detection of Non-O157 Shiga Toxin-Producing *Escherichia coli* Serogroups O26, O45, O103, O111, O121, and O145. *J Food Protection*. 2012 May; (5):812-997.

**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**

BacTrace Anti- <i>E. coli</i> O45 Antibody	Cat. No. 01-95-96
BacTrace <i>E. coli</i> O45:H2 Positive Control	Cat. No. 50-95-96

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