

Phosphatase-Labeled Affinity Purified Antibody To Listeria, Genus Specific

BacTrace® Antibodies

Produced in Goat

Catalog No. **05-90-90** Size **0.1 mg**

— Product Data —

DESCRIPTION:

Affinity purified antibody, isolated from a pool of serum from goats immunized with different strains of Listeria, labeled with phosphatase using a modified glutaraldehyde procedure (1).

FORM/STORAGE:

Lyophilized. Store at 4°C until rehydrated. Stable for a minimum of 1 year at 4°C.

STABILIZER AND PRESERVATIVE:

Bovine serum albumin added as protein stabilizer. No preservatives added. Additional biological protection may be provided with 0.1% sodium azide or 0.01% thimerosal. Non-sterile.

ANTIBODY CONTENT:

This product contains 0.1 mg of affinity purified antibody.

E/P RATIO:

Molar enzyme/antibody protein ratio = 3.0.

SPECIFICITY:

This antibody is broadly reactive to Listeria and recognizes all 25 Listeria species tested in our laboratory. The intensity of reaction may vary with the strain of Listeria tested. It may also show some cross-reactivity to Staphylococcus and Streptococcus species when tested by Dot ELISA on nitrocellulose membrane.

REHYDRATION AND STORAGE:

Two methods for rehydration and storage are recommended to meet most needs. Procedure A using 50% glycerol is preferred. It eliminates freezing at -20°C and 50% glycerol is an effective biological inhibitor when the product is stored at 4°C. At a working dilution, the level of glycerol is too small to affect most assays.

Procedure A

Solution Preparation:

- 50% Glycerol

Mix 1 ml of glycerol with 1 ml of reagent quality water in a test tube.

Rehydration: Transfer 1 ml of this 50% glycerol solution to the product vial.

Rotate the vial until the lyophilized pellet is totally dissolved. Dilute to desired concentration with PBS or other buffer.

Storage: This product may be stored either refrigerated or frozen as desired.

Product is stable for a minimum of 1 year.

Procedure B

Rehydration: Rehydrate with 1 ml of reagent quality water. Dilute to desired concentration with PBS or other buffer.

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.

Note: Variations in temperature due to freeze cycles may cause loss of activity when rehydrated product is stored frozen in aliquots less than 50 µl.

SUGGESTED WORKING

DILUTIONS:

Different assay conditions require that serial dilutions of all reagents be performed to determine optimal working concentrations. Prepare working dilution immediately before use. Storage

at a working dilution may result in enzyme inactivation and performance loss. Suggested starting dilutions are as follows:

Microwell Plate Immunoassays: 1:100 (1.0 µg/ml) for 0.1 mg vial
Membrane Immunoassays: 1:50 (2.0 µg/ml) for 0.1 mg vial

SUBSTRATES:

KPL offers the following phosphatase substrates for:

Microwell Plates: Phos-Substrate System for ELISA, Cat # 50-90-00

Membrane: BCIP/NBT Phos-Substrate System, Cat # 50-81-00

REFERENCES:

1. Voller, A., et al. A Manual of Clinical Immunology. American Society for Microbiology 1976

*OSHA Communication Standard CFR 1910 1200, November 25, 1983.

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