

## Antibody Datasheet

**Name:** Goat Anti-Listeria Antibody, Genus-Specific

**Product Code:** 5310-0319

**Batch #:**

**Date of Manufacture:**

**Product Description:** Affinity purified polyclonal antibody to the Listeria genus made in goat (**BacTrace®**). Isolated from a serum pool of goats immunized with different strains of heat-killed whole cells of Listeria. This antibody is broadly reactive to Listeria and recognizes all 25 Listeria species tested in our laboratory. Each lot is tested to assure specificity and lot-to-lot consistency using an in-house ELISA assay.

**Amount:** 1.0 mg (as determined by UV absorbance at 280 nm)

**Presentation:** Lyophilized

**Rehydration:** 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 is an effective biological inhibitor. At a working dilution, the level of glycerol is too small to affect most assays.

### Procedure A: 50% Glycerol

- Solution Preparation: Mix 1 part glycerol with 1 part reagent quality water.
- Rehydration: Transfer 1 mL of the 50% glycerol solution to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Antibody concentration will then be 1.0 mg/mL.
- Storage: The rehydrated product is stable for a minimum of 1 year at 2-8 °C.

### Procedure B: Acetic Acid/Bi-Carbonate

- Solution Preparation: Prepare immediately before use:
  - M Acetic Acid Solution: Mix 25 µL of Glacial Acetic Acid and 40 mL reagent quality water.
- 0.177M Carbonate-Bicarbonate Solution: Dissolve 1.09 g of Na<sub>2</sub>CO<sub>3</sub> and 0.63 g of NaHCO<sub>3</sub>, in 100 mL reagent quality water.
- Rehydration: Add 0.1 mL of 0.01M Acetic Acid to 1 mg of antibody. Rotate vial until totally dissolved. Add 0.1 mL of the Carbonate-Bicarbonate Solution and rapidly mix to obtain a clear or opalescent solution. Heat at 37°C for 30 minutes and allow to slowly cool to room temperature. Final concentration is 5.0 mg/mL.
- Storage: This product may be stored for up to one week at 2-8°C; thereafter, it should be stored at -20 °C. At -20 °C, product is stable for a minimum of 1 year.

**Stabilizer:** No stabilizers added.

**Preservative:** No preservatives added. Non-sterile.

**Immunogen:** Different strains of heat-killed whole cells of Listeria.

**Purification:** Affinity purified

**Specificity:** Antibody reacts broadly with Listeria species. The intensity of reaction may vary with the strain of Listeria tested. Tested by ELISA techniques as applicable.

**Cross-Reactivity:** May show occasional low-level cross-reactivity to Staphylococcus and Streptococcus species under certain test conditions.

**Application Notes:** Optimal working concentrations should be determined experimentally. Prepare working dilution in PBS or other buffer. Dilution is not recommended for long-term storage. Suggested dilutions are listed below. In many cases, the antibody may be diluted further than indicated:

Capture Antibody: 10 µg/mL

Primary Antibody: 1-2 µg/mL

### Usage Guidelines

**Storage:** +4°C

**Storage Guidelines:** Store +4°C until rehydrated. Stable for a minimum of 1 year when stored at +4°C. Avoid multiple freeze-thaw cycles.

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**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**

