

## Antibody Datasheet

**Name:** Goat Anti-Borrelia Species Antibody

**Product Code:** 5310-0338

**Batch #:**

**Date of Manufacture:**

**Product Description:** Affinity purified polyclonal antibody to Borrelia species made in goat (BacTrace). Isolated from a serum pool from goats immunized with heat-killed whole cells of Borrelia burgdorferi. The antibody is highly specific for Borrelia burgdorferi, Borrelia hermsii, Borrelia anserina, and Borrelia coriaceae. Product is in lyophilized form. Each lot is tested to assure specificity and lot-to-lot consistency using an in-house ELISA assay.

**Amount:** 1.0 mg

**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: Rehydrate with 1 mL of 50% glycerol.

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:

0.01M 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 solution to the 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:** Goats were immunized with various strains of Borrelia.

**Purification:** Affinity purified

**Specificity:** This product is designed to react broadly with Borrelia.

**Applications:** Product is tested via ELISA techniques as applicable.

**Application Notes:** Optimal working concentrations should be determined experimentally. Prepare working concentration in PBS or other buffer immediately before use. Dilution is not recommended for long-term storage. Suggested concentrations are listed below. In many cases, the antibody may be used at lower concentrations than indicated:

Capture Antibody: 10 µg/mL

Primary Antibody: 1-2 µg/mL

### Usage Guidelines

**Short Term Storage:** Store at +4°C until rehydrated. Stable for a minimum of 1 year when stored at +4°C.

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

