

## Antibody Datasheet

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

**Product Code:** 5310-0337

**Batch #:**

**Date of Manufacture:**

**Product Description:** Affinity purified polyclonal antibody (BacTrace) to *Borrelia burgdorferi* made in goat. Isolated from a serum pool of goats immunized with heat killed whole cells of *Borrelia burgdorferi*. The antibody is highly specific for *Borrelia burgdorferi*. Cross reactivity to *Borrelia hermsii*, *Borrelia coriaceae*, and *Borrelia anserina* has been minimized through extensive affinity adsorption. 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/Bicarbonate 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 immunized with whole cells of *Borrelia burgdorferi*.



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**Purification:** Affinity purified

**Specificity:** This antibody is highly specific for *Borrelia burgdorferi*.

**Cross-Reactivity:** Cross-reactivity to other *Borrelia* species has been minimized through extensive affinity adsorption. Antibody has not been tested for cross-reactivity to treponemes.

**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

**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.**



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