

Affinity Purified Antibody To Borrelia burgdorferi

BacTrace™ Antibodies
Produced in Goat

Catalog No. 01-97-91 Size
1.0 mg

— Product Data —

DESCRIPTION:

Affinity purified antibody, isolated from a serum pool from goats immunized with whole cells of Borrelia burgdorferi.

FORM/STORAGE:

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

STABILIZER AND PRESERVATIVE:

No stabilizers or preservatives. Non-sterile.

ANTIBODY CONTENT:

1.0 mg of Affinity Purified Antibody

SPECIFICITY:

This antibody is highly specific for Borrelia burgdorferi. Cross-reactivity to other Borrelia species has been minimized through extensive affinity adsorption. Antibody has not been tested for cross-reactivity to treponemes.

REHYDRATION AND STORAGE:

Three methods for rehydration and storage are recommended for most needs. Procedure A using 50% glycerol 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. Solutions containing sodium chloride should not be used to rehydrate this product.

Procedure A (For Immunoassay Procedures)

Solution Preparation:

• 50% Glycerol

Mix 1 ml glycerol with 1 ml 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. Antibody concentration = 1.0 mg/ml. Dilute to desired concentration with PBS or other buffer.

Storage: This product may be stored either refrigerated or frozen as desired. Stable for a minimum of 1 year.

Procedure B (For Conjugations in Carbonate Buffer)

Preparation of Buffers: (Prepare immediately before use)

• 0.01M Acetic Acid Solution:

25 µl of Glacial Acetic Acid and 40 ml reagent quality water.

• 0.177 M Carbonate-Bicarbonate Solution:

1.09 g of Na₂CO₃ and 0.63 g of NaHCO₃ dissolved 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. Antibody concentration = 5.0 mg/ml. 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.

Procedure C (For Iodination Procedures)

Preparation of Buffers:

- 0.3 M Sodium Phosphate Buffer (0.1M NaH₂PO₄, 0.2M Na₂HPO₄)
1.38 g NaH₂PO₄ · H₂O and 2.84 g Na₂HPO₄ diluted to 100 ml with reagent quality water. (pH 7.4)

Rehydration: Add 0.1 ml of Sodium Phosphate Buffer to 1 mg vial of antibody. Rotate the vial until totally dissolved. Heat at 37°C for 30 minutes and allow to slowly cool to room temperature. Antibody concentration = 10 mg/ml. 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.

Product Safety and Handling:

This product is considered non-hazardous as defined by OSHA*. Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Product may be disposed of in the drain.

SUGGESTED WORKING CONCENTRATION:

Different assay conditions require that serial dilutions of all reagents be performed to determine optimal working concentrations. Suggested starting concentrations are as follows:

Agar Gel Diffusions:	5 mg/ml
As a Capture Antibody:	10 µg/ml
As a Primary Antibody:	10 µg/ml

*OSHA Communication Standard CFR 1910.1200, November 25, 1983.

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Nothing disclosed herein is to be construed as a recommendation to use this product in violation of any patents. The information presented above is believed to be accurate. However, said information and product are offered without warranty or guarantee since the ultimate use of the materials treated are beyond our control. We cannot be responsible for patent infringements or other violations that may occur with the use of this product. No claims beyond replacement of unacceptable material or refund of purchase price shall be allowed.



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