

Affinity Purified Antibody To Campylobacter species

Bac Trace™ Antibodies
Produced in Goat

Catalog No. **01-92-93** **Size**
1.0 mg

— Product Data —

DESCRIPTION:

Affinity purified antibody, isolated from a serum pool from a goat immunized with different strains of *Campylobacter* to induce a strong response to common antigens.

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 broadly reactive to *Campylobacter* and recognizes all *Campylobacter* strains listed in Table 1 on back. The intensity of reaction may vary with the strain of *Campylobacter* tested. It may also show some cross-reactivity to related bacteria (i.e. *Helicobacter*) when tested by Dot ELISA on nitrocellulose membrane.

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 Na_2CO_3 and 0.63 g of NaHCO_3 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 NaH_2PO_4 , 0.2M Na_2HPO_4)

1.38 g $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$ and 2.84 g Na_2HPO_4 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.

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 conditions of use and the variability of the materials tested are beyond our control. We cannot be responsible for patent infringement 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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Laboratories Inc.

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Table 1.

Campylobacter or Helicobacter Serotypes from American Type Culture Collection Tested

C. coli	33559,43474, 43479,43482, 43488	C. fetus	27374,33246, 33247,33293,	C. jejuni	29428,33291, 33560,43429, 43435,43440,	C. lariidis	43675
		ssp. venerealis	33561		43457,43502	C. mucosalis	43264
C. concisus	33237	C. hyointestinalis	35217			H. pylori	43504,43526, 43579