

Peroxidase-Labeled Affinity Purified Antibody To Campylobacter species

Bac Trace™ Antibodies
Produced in Goat

Catalog No. 04-92-93 Size 0.1 mg

— Product Data —

DESCRIPTION:

Affinity purified antibody, isolated from a pool of serum from a goat immunized with different strains of *Campylobacter*, labeled with peroxidase by the periodate method of Nakane and Kawaoi (1).

FORM/STORAGE:

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

STABILIZER AND PRESERVATIVE:

Goat serum added as protein stabilizer. No preservatives added. Additional biological protection may be provided with 0.01% thimerosal. Do not use sodium azide. Non-sterile.

ANTIBODY CONTENT:

This product contains 0.1 mg of Affinity Purified Antibody.

E/P RATIO:

Molar enzyme/antibody protein ratio = 4.0.

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:

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 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.

Procedure A

Solution Preparation:

• 50% Glycerol

Mix 1 ml of glycerol with 1 ml of 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. Dilute to desired concentration with PBS or other buffer.

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

Procedure B

Rehydration: Rehydrate with 1 ml of reagent quality water. 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.

Note: Variations in temperature due to freeze cycles may cause loss of activity when rehydrated product is stored frozen in aliquots less than 50 µl.

SUGGESTED WORKING DILUTIONS:

Different assay conditions require that serial dilutions of all reagents be performed to determine optimal working concentrations. Prepare working dilution immediately before use. Storage at a working dilution may result in enzyme inactivation and performance loss. Suggested starting dilutions are as follows:

Microwell Plate Immunoassays: 1:100 (1.0 µg/ml) for 0.1 mg vial
Membrane Immunoassays: 1:50 (2.0 µg/ml) for 0.1 mg vial

SUBSTRATES:

KPL offers the following peroxidase substrates for:

Microwell Plates: ABTS Peroxidase Substrate System: Cat. # 50-62-00
TMB Peroxidase Substrate System: Cat. # 50-76-00
Membranes: 4-CN Peroxidase Substrate System: Cat. # 50-73-00
TMB Membrane Substrate System: Cat. # 50-77-00

Caution:

Horseshoe peroxidase is inactivated in the presence of hydrogen peroxide by reacting irreversibly with certain pollutants common in laboratory water supplies. If this product fails to perform as expected, check water supply for enzyme inactivation.

REFERENCES:

1. Nakane, P.K., and Kawaoi, A., J. Histochem. Cytochem. 22 (1974) 1084.

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

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Table 1.

Campylobacter or Helicobacter Serotypes from American Type Culture Collection Tested

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