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Datasheet for B000-03

Biotin Peroxidase Conjugated

Overview

Description:	Biotin Peroxidase Conjugated - B000-03
Item No.:	B000-03
Size:	5 mg
Applications:	Dot Blot, ELISA

Product Details

Background:	Biotin is a small biomolecule important for many cellular processes. Most importantly for biotechnology applications, biotin is ammenable to conjugation to proteins for use in biochemical assays. Biotin has a very strong affinity for avidin and streptavidin; an attraction that is the strongest and most stable non-covalent interaction known. Horse Raddish Peroxidase (HRP) is an enzyme that utilize organic peroxide compounds as electron donors. Naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs). Biotin Peroxidase Conjugated is ideal for investigators in Immunology, Cancer, Neuroscience, and Cell Biology.
Synonyms:	Vitamin H, Coenzyme R, Vitamin B7, Biotin Peroxidase Conjugated, Biotin HRP Conjugated
Conjugate:	Biotin

Target Details

Purity/Specificity:	Biotin Peroxidase Conjugated was prepared from chromatographically purified biotin. Biotin Peroxidase Conjugated was assayed by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Biotin.

Application Details

Tested Applications:	Dot Blot, ELISA
Application Note:	Biotin Peroxidase Conjugated has been tested by ELISA and dot blot and can be utilized in ELISA and Western Blotting experiments where the assay's target of interest is coupled with streptavidin.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:200,000
IHC:	1:1,000 - 1:5,000
WB:	1:10,000 - 1:40,000

Formulation

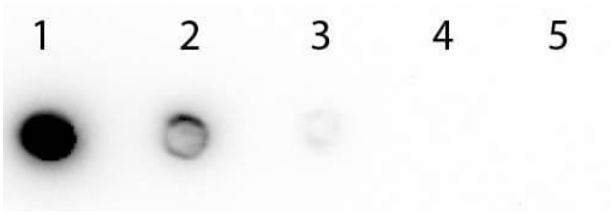
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Biotin Peroxidase Conjugated is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Bottle
Biotin Peroxidase Conjugated



Dot Blot
Dot Blot of Biotin Peroxidase Conjugated. Antigen: Streptavidin. Load: Lane 1 - 100ng. Lane 2 - 33.3ng. Lane 3 - 11.1ng. Lane 4 - 3.70ng. Lane 5 - 1.23ng. Primary antibody: n/a. Secondary antibody: Biotin Peroxidase Conjugated at 1:1,000 for 1 HR at RT. Block: MB-070 for 1 HR at RT.

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