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Datasheet for 001-0333

Bovine Albumin Peroxidase

Overview

Description:	Bovine Albumin Peroxidase Conjugated (BSA) - 001-0333
Item No.:	001-0333
Size:	1 mg
Applications:	IF
Origin:	Bovine

Product Details

Background:	Bovine Serum Albumin (BSA) is used for various biochemical applications including ELISA (Enzyme-Linked Immunosorbent Assay), high content screening assays, western blotting, FACS Buffer and immunohistochemistry. BSA as a blocking reagent is particularly useful with casein-sensitive antibodies, such as phospho-specific antibodies. Also used as a nutrient in cell and microbial culture. In restriction digests, BSA is used to stabilize some enzymes during digestion of DNA and to prevent adhesion of the enzyme to reaction tubes and other vessels. Bovine Serum Albumin can also be used to determine the quantity of other proteins, by comparing an unknown quantity of protein to known amounts of BSA.
Synonyms:	Bovine Albumin Peroxidase conjugation, Bovine Albumin HRP conjugation, Peroxidase conjugated BSA, HRP conjugated BSA
Species of Origin:	Bovine
Conjugate:	Peroxidase (HRP)
Format:	Albumin
Type:	Native Protein
F/P Ratio:	1.55

Target Details

Purity/Specificity:	This product was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and selective precipitation followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase anti-Bovine Albumin and anti-Bovine Serum.

Relevant Links:	• 001-0333-SDS

Application Details

Suggested Applications:	IF (Based on references)
Application Note:	BOVINE ALBUMIN Peroxidase conjugated (BSA) is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

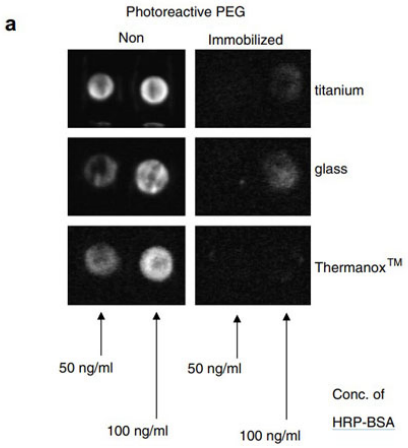
Formulation

Physical State:	Lyophilized
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium 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 Polyethylene Glycol (PEG-8000)
Reconstitution Volume:	1.0 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. This product 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



Immunofluorescence Microscopy
(a) Chemiluminescence of HRP–BSA on non-immobilized and PEG-photoimmobilized titanium, glass, and Thermonox™.
Fig. 8. PMID: 17644500.

References

- Ito Y et al. Surface modification of plastic, glass and titanium by photoimmobilization of polyethylene glycol for antibiofouling. *Acta Biomater* (2007)

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