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Datasheet for PG00-02

Protein G Fluorescein Conjugated

Overview

Description:	Protein G Fluorescein Conjugated - PG00-02
Item No.:	PG00-02
Size:	1 mg
Applications:	Dot Blot
Origin:	Streptococcus sp.

Product Details

Background:	Protein G is a surface protein of two groups of Streptococcal bacteria that has the ability to bind immunoglobulins. Similar to Protein A, but with slightly different specificity, Protein G is an important agent in the purification of proteins due to its ability to bind the Fc region. While native Protein G binds to albumin, recombinant Protein G is designed to contain only immunoglobulin binding domains to ensure the maximum specific IgG binding capacity. Protein G is also coupled with reporter molecules such as a fluorescein, peroxidase, biotin and other detection reagents.
Synonyms:	ProG, Streptococcus G protein, Protein G FITC
Species of Origin:	Streptococcus sp.
Conjugate:	Fluorescein (FITC)
F/P Ratio:	2.15

Target Details

Purity/Specificity:	Protein G Fluorescein Conjugate was prepared from chromatographically pure recombinant Protein G. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein and anti-Protein G. No reaction was observed against anti-Protein A.
Relevant Links:	• UniProtKB - P19909

Application Details

Tested Applications:	Dot Blot

Application Note:	Protein G Fluorescein Conjugated has been tested by dot blot and 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. Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1:500 - 1:2,500
FLISA:	1:10,000 - 1:50,000
IF:	1:1,000 - 1:5,000

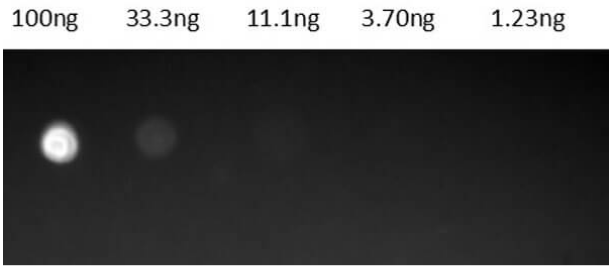
Formulation

Physical State:	Lyophilized
Concentration:	2.0 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) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	500 µL
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



Dot Blot

Dot Blot results of Protein G Fluorescein Conjugate. Dots are Protein G-FITC: (1) 100ng, (2) 33.3ng, (3) 11.1ng, (4) 3.70ng, (5) 1.23ng. Primary Antibody: none. Secondary Antibody: none. Imaged with BioRad ChemiDoc, Fluorescein filter.

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