

Datasheet for 001-0104

Bovine IgG F(ab')₂**Overview**

Description:	Bovine IgG F(ab') ₂ Fragment (BULK ORDER) - 001-0104
Item No.:	001-0104
Size:	10 mg
Applications:	SDS-PAGE
Origin:	Bovine

Product Details

Background:	Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. This product possesses the F(ab') ₂ fragment, recognized by the two F(ab) fragments yielded from the digestion of the antibody below the disulfide bond hinge region.
Synonyms:	Bovine IgG F(ab') ₂ fragment, Bovine IgG Fab ₂ fragment
Species of Origin:	Bovine
Format:	IgG F(ab') ₂
Type:	Native Protein

Target Details

Purity/Specificity:	This product was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by pepsin digestion and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Bovine IgG, anti-Bovine IgG F(ab') ₂ and anti-Bovine Serum. No reaction was observed against anti-Bovine IgG F(c) or anti-Pepsin.
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Application Details

Tested Applications:	SDS-PAGE
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Application Note:	Bovine IgG F(ab') ₂ has been tested in SDS-Page and can be utilized as a control or standard reagent in Western Blotting and ELISA experiments.
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Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
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Formulation

Physical State:	Lyophilized
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Concentration:	10.0 mg/mL by UV absorbance at 280 nm
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Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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Preservative:	0.01% (w/v) Sodium Azide
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Stabilizer:	None
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Reconstitution Volume:	1.0 mL
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Reconstitution Buffer:	Restore with deionized water (or equivalent)
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Shipping & Handling

Shipping Condition:	Ambient
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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.
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Expiration:	Expiration date is one (1) year from date of receipt.
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Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

