Datasheet for D602-0100

Chicken Gamma Globulin Fraction

Overview

Description:	Chicken Gamma Globulin Fraction - D602-0100
Item No.:	D602-0100
Size:	100 mg
Applications:	SDS-PAGE, Biochemical Assay, Other
Origin:	Chicken

Product Details

Background:	Gamma globulins are a class of globulins, identified by their position after serum protein electrophoresis. The most significant gamma globulins are immunoglobulins ("Igs"), more commonly known as antibodies, although some Igs are not gamma globulins, and some gamma globulins are not Igs. Globulin is one of the three main types of serum proteins, the others being albumin and fibrinogen. Some globulins are produced in the liver, while others are made by the immune system.
Synonyms:	Chicken Plasma Gamma Globulin, Chicken Serum Gamma Globulin, Chicken Globulin Fractions, Chicken γ-globulin, gamma globulin from chicken, chicken globulin
Species of Origin:	Chicken
Type:	Native Protein

Target Details

Purity/Specificity:	Chicken gamma globulin was prepared from normal serum by a multi-step process which includes delipidation and salt fractionation followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in precipitin arcs against anti-Chicken Serum corresponding to gamma globulins.

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Biochemical Assay, Other (Based on references)

Application Note:	Chicken Gamma Globulin Fraction has been tested by SDS-PAGE and can be utilized in Western Blotting and ELISA experiments.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	User Optimized
WB:	User Optimized

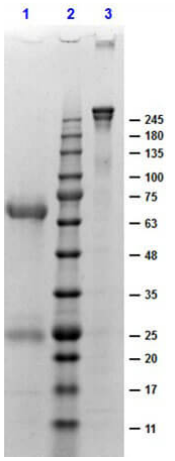
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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:	None
Reconstitution Volume:	10.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

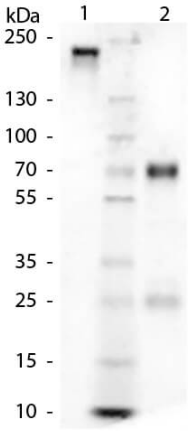
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store chicken gamma 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



SDS-PAGE
SDS-Page of Chicken Gamma Globulin Fraction. Lane 1: Reduced Chicken Gamma Globulin. Lane 2: Opal PreStained Molecular Weight Ladder (p/n MB-210-0500). Lane 3: Non-reduced Chicken Gamma Globulin Load: 1.0 ug per lane. 4-20% Gel, Stain Coomassie Blue. Predicted/Observed size: 25 & 70 kDa – Reduced; 230 kDa, migrates higher – Non-reduced, for Chicken Gamma Globulin.



SDS-PAGE
SDS-Page of Chicken Gamma Globulin Fraction. Lane 1: Chicken Gamma Globulin – Non-reduced. Lane 2: Chicken Gamma Globulin – Reduced. Load: 1.0 ug per lane. Stain Coomassie Blue. Predicted/Observed size: 230 kDa – Non-reduced, 25 & 70 kDa – Reduced for Chicken Gamma Globulin. Other band(s): None.

References

- Zuo T et al. Somatic hypermutation generates antibody specificities beyond the primary repertoire. *Immunity.* (2025)
- Higashiyama M et al. Oral bacteria induce IgA autoantibodies against a mesangial protein in IgA nephropathy model mice. *Life Sci Alliance.* (2024)
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- Schiepers A et al. Opposing effects of pre-existing antibody and memory T cell help on the dynamics of recall germinal centers. *Immunity.* (2024)
- van den Broek T et al. Invasion of spontaneous germinal centers by naive B cells is rapid and persistent. *Sci Immunol.* (2024)
- Callahan D et al. Memory B cell subsets have divergent developmental origins that are coupled to distinct imprinted epigenetic states. *Nat Immunol.* (2024)
- Mesin L et al. Restricted clonality and limited germinal center reentry characterize memory B cell reactivation by boosting. *Cell.* (2020)
- Firl DJ et al. Capturing change in clonal composition amongst single mouse germinal centers. *eLife* (2018)

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