

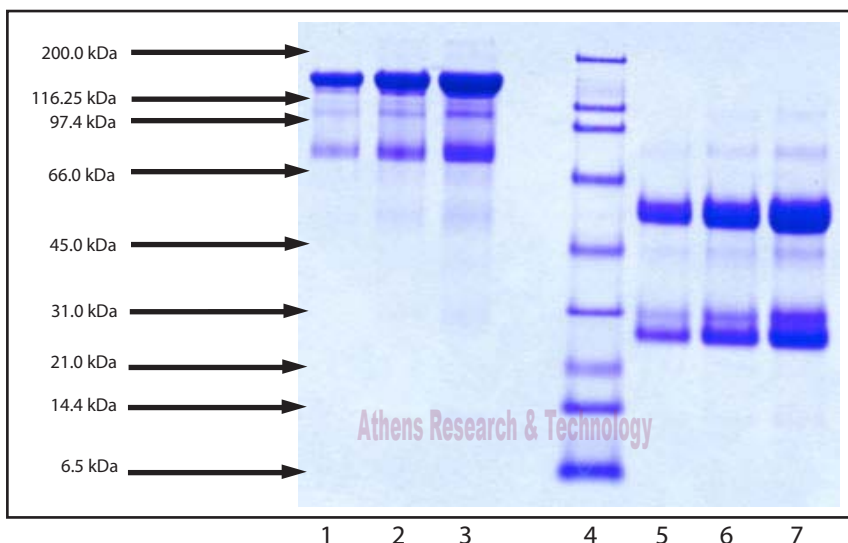
# Athens Research & Technology

110 Trans Tech Drive Athens, GA 30601 USA  
PHONE: 706-546-0207 • FAX: 706-546-7395 • EMAIL: ARTBIO@ATHENSRESEARCH.COM  
www.athensresearch.com

## Gel Scan of Representative Lot

### Immunoglobulin G4, Human Plasma

ART Catalog No. 16-16-090707-4



#### SDS-PAGE:

##### 4-12% Bis-Tris NuPAGE Gel

1. IgG4 - 5 µg (reduced / heated)
2. IgG4 - 10 µg (reduced / heated)
3. IgG4 - 20 µg (reduced / heated)
4. BRMW Standard (BIO-RAD Cat. No. 161-0304)
5. IgG4 - 5 µg (non-reduced / no heat)
6. IgG4 - 10 µg (non-reduced / no heat)
7. IgG4 - 20 µg (non-reduced / no heat)

**Molecular Weight:** 146,000

#### Protein Determination:

Extinction Coefficient (E)  $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.36$

#### Physical Specifications:

Frozen

Purity:  $\geq 95\%$  by SDS-PAGE

IEP results: reaction to antisera to human IgG, kappa and lambda. No reaction to antisera to human IgA, IgD, IgE or IgM.

$>95\%$  by Human Subclass ELISA Kit (Sanquin, Cat. No. M1551)

#### Considerations:

Storage Conditions:  $\leq -20^\circ\text{C}$

Stability  $> 1$  year

Buffer: 20 mM phosphate, pH 7.4, with 150 mM NaCl and 0.05%  $\text{NaN}_3$

Virginia B. Patel PhD

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## Product Datasheet

Product:	Immunoglobulin G4, Human Plasma
Catalog Number:	16-16-090707-4
Description:	Frozen
Buffer:	20 mM phosphate, pH 7.4, 150 mM NaCl and 0.05% NaN <sub>3</sub>
Purity:	>=95% by SDS-PAGE
Molecular Weight:	MW 146,000
Protein Determination:	Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.36$
Storage:	<= -20°C
Stability:	> 1 year
Available Packaging:	100 ug per vial Larger aliquots upon request
Source:	Human Plasma
Testing:	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

**Athens Research & Technology products are laboratory reagents and are not to be administered to humans or used for any drug purpose.  
For research use only.**

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ISO9001:2008

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## Certificate Of Origin

Product Name:	Immunoglobulin G4, Human Plasma
Catalog Number:	16-16-090707-4
Lot Number:	Information applies to all lots produced.
Manufacturing Information:	The methods and controls used in this facility for manufacturing, processing, packaging and holding of our products are in accordance with ISO9001:2008 Quality Management System.
Manufacturing Site:	Athens Research & Technology Inc., Athens, Georgia, USA
Raw Material Information:	The product contains no materials directly of animal origin and has not been in contact with products of animal origin in the course of its purification.
Country of Origin (manufacturing):	United States
Biological Source Material (COO):	United States
Donor Consent:	The raw material used in the purification of this product has been obtained from an FDA licensed collection center. Further the donor or the donor's next of kin has given by signature full informed consent for the material to be used in commercial scientific research, including the sharing, transferring, or selling of samples to third parties involved in this research. The raw material was obtained in an ethical manner in full compliance with national legislation, and the donor identity is held as confidential information by the licensed collection center.

**Athens Research & Technology products are laboratory reagents and are not to be administered to humans or used for any drug purpose.  
For research use or for use in further manufacturing.**