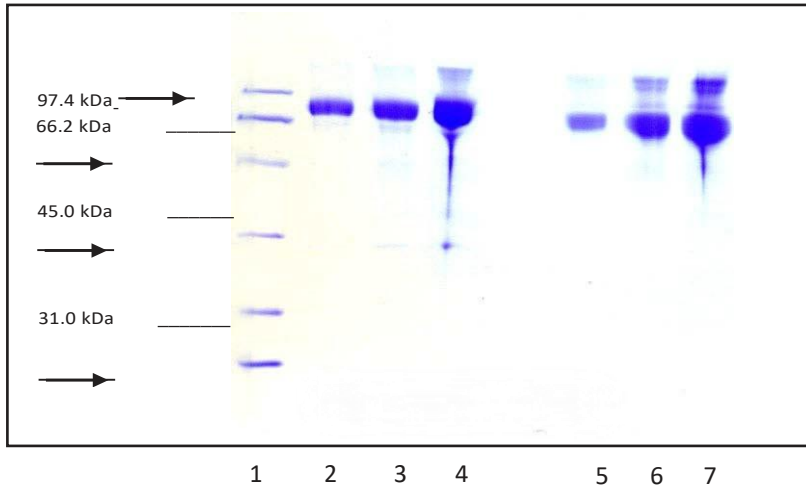


Gel Scan of Representative Lot
Immunoglobulin M, mu Chain, Human Plasma
ART Catalog No. np001053



SDS-PAGE:

12% BIO RAD Tris-HCl gel

1. LMW Standard (BIO-RAD Cat. No. 161-0304)
2. IgM μ -5 μ g (reduced / heated)
3. IgM μ -10 μ g (reduced / heated)
4. IgM μ -20 μ g (reduced / heated)
5. IgM μ -5 μ g (non-reduced / no heat)
6. IgM μ -10 μ g (non-reduced / no heat)
7. IgM μ -20 μ g (non-reduced / no heat)

Molecular Weight: 75,000

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.33$

Physical Specifications:

Lyophilized

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

Considerations:

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

Stability > 1 year

Buffer: 1.0 M acetic acid

Product Datasheet

Product:Immunoglobulin M, mu Chain, Human Plasma

Catalog Number:np001053

Description:Lyophilized

Buffer:1.0 M acetic acid

Purity: $\geq 95\%$ by SDS-PAGE. Immunoreactivity by IEP against to whole human serum and to IgM, mu chain. No reaction by IEP to antisera to kappa or lambda.

Molecular Weight:MW 75,000

Protein Determination:Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.33$

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

Stability: > 1 year

Available Packaging:1 mg 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.

Certificate Of Origin

Product Name:Immunoglobulin M, mu Chain, Human Plasma

Catalog Number:np001053

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 ISO9001:2015 Quality Management System.

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.