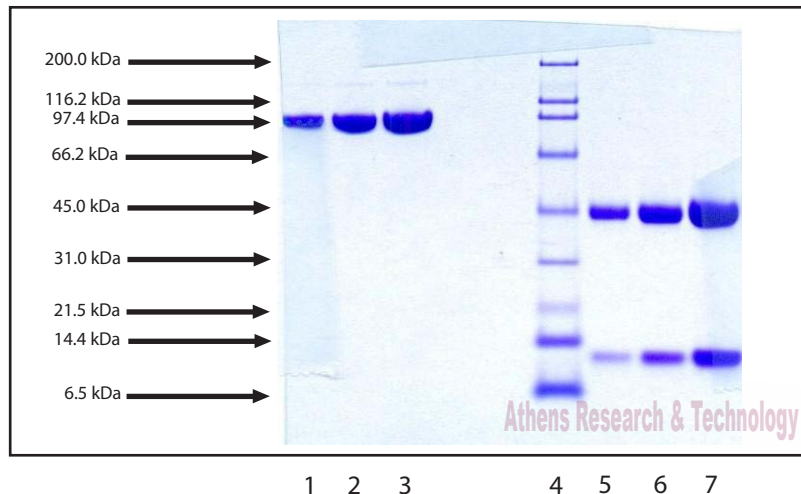


Athens Research & Technology

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Gel Scan of Representative Lot

Haptoglobin, Phenotype 1-1, Human Plasma, Low Endotoxin Level
ART Catalog No. 16-16-080116-1/1-LEL



SDS-PAGE:

4-12% Bis-Tris-HCl NuPAGE gel

Invitrogen, CAT #NP0335BOX with 1X MES running buffer without Antioxidant

1. Haptoglobin - 5 μ g (non-reduced / no heat)
2. Haptoglobin - 10 μ g (non-reduced / no heat)
3. Haptoglobin - 20 μ g (non-reduced / no heat)
4. BMW Standard (BIO-RAD Cat. No. 161-0317)
5. Haptoglobin - 5 μ g (reduced / heated)
6. Haptoglobin - 10 μ g (reduced / heated)
7. Haptoglobin - 20 μ g (reduced / heated)

Molecular Weight:

Hp 1-1: 86,000

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.20$

Endotoxin Level: <1.0 EU/mg by Fluorogenic assay, Lonza, 50-658U

Physical Specifications:

Lyophilized

Purity: $\geq 95\%$ by SDS-PAGE, no visible alpha-2 light chain by SDS-PAGE

Considerations:

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

Stability > 1 year

Buffer: Salt-free lyophilized solid.

Virginia B. Patel PhD

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Product Datasheet

Product:	Haptoglobin, Phenotype 1-1, Human Plasma, Low Endotoxin Level
Catalog Number:	16-16-080116-1/1-LEL
Description:	Lyophilized
Buffer:	Salt-free lyophilized solid
Purity:	>=95% by SDS-PAGE, no visible alpha-2 light chain by SDS-PAGE
Molecular Weight:	Hp 1-1: 86,000
Protein Determination:	Extinction Coefficient (E) _{1cm pathway} ^{0.1% at 280nm} = 1.20
Endotoxin Level:	<1.0 EU/mg by fluorogenic assay, Lonza, 50-658U
Storage:	<= -20° 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.

**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

Certificate Of Origin

Product Name:	Haptoglobin, Phenotype 1-1, Human Plasma, Low Endotoxin Level
Catalog Number:	16-16-080116-1/1-LEL
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.**