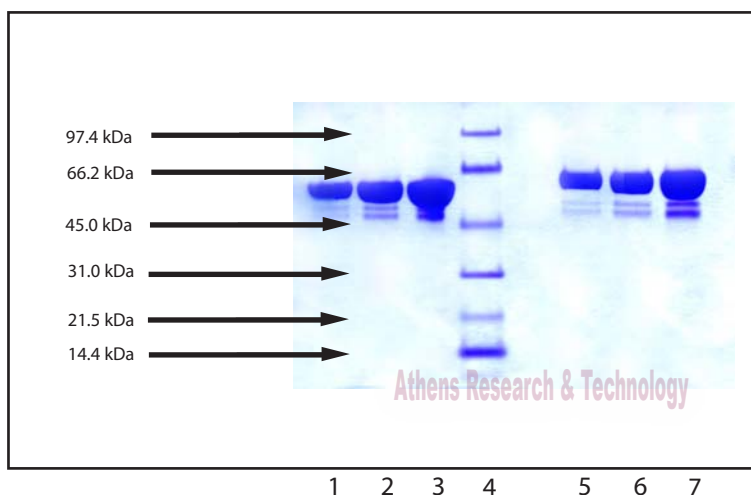


Athens Research & Technology

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

Catalase, Human Erythrocyte
ART Catalog No. 16-05-030000



SDS-PAGE:

4-12% Bis-Tris NuPAGE gel

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

Molecular Weight: 230,000

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.39$

Physical Specifications:

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

Activity:

Greater than or equal to 50,000 units per mg protein. One unit is equal to the amount of enzyme which will decompose one pmole of hydrogen peroxide per minute at 25°C, pH 7.0

Considerations:

Storage Conditions: $\leq -70^\circ \text{C}$

Stability > 1 year

Buffer: 50 mM Tris-HCl, pH 8.0

Virginia B Patel

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Product Datasheet

Product:	Catalase, Human Erythrocyte
Catalog Number:	16-05-030000
Description:	Frozen
Buffer:	50 mM Tris-HCl, pH 8.0
Purity:	>=95% by SDS-PAGE
Activity:	Greater than 50,000 units per mg protein. One unit is equal to the amount of enzyme that will decompose one micromole of hydrogen peroxide per minute at 25°C, pH 7.0
Molecular Weight:	MW 230,000
Protein Determination:	Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.39$
Native Structure:	Homotetramer
Subunit:	MW 58,000
Storage:	-70° C
Stability:	> 1 Year
Available Packaging:	1 mg per vial Larger aliquots upon request
Source:	Human Erythrocytes
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 or for use in further manufacturing.**

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ISO9001:2008

Certificate Of Origin

Product Name:	Catalase, Human Erythrocyte
Catalog Number:	16-05-030000
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.

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