

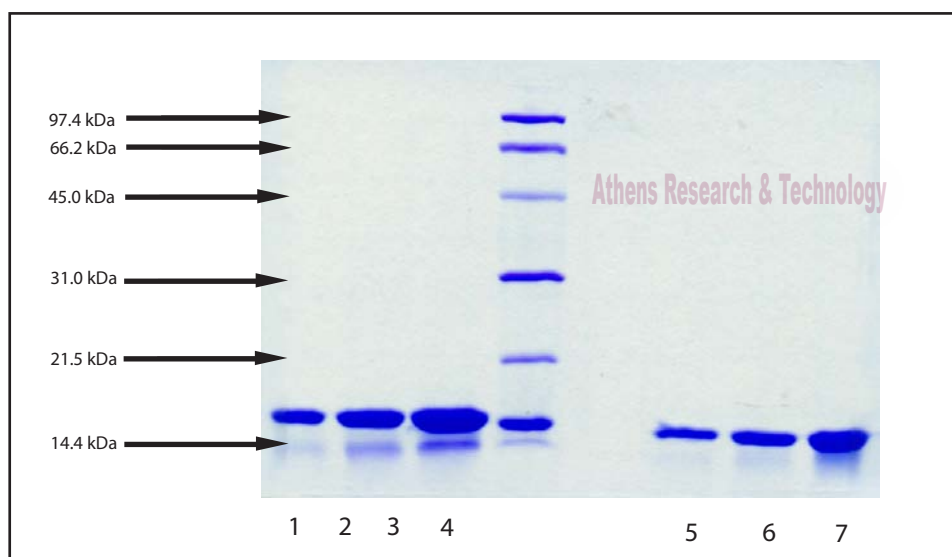
Athens Research & Technology

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

Lysozyme, Human Neutrophil

ART Catalog No. 16-14-122519



SDS-PAGE:

4-12% Bis-Tris NuPAGE gel

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

Molecular Weight: 14,700

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 2.51$

Physical Specifications:

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

Activity: $>30,000$ Sugar units per mg. One unit of activity is defined as the amount of enzyme which will digest powdered cells of *Micrococcus lysodeikticus*, causing a decrease in absorbancy of 0.001 per minute at 37°C , pH 7.0.

Considerations:

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

Stability > 1 year

Buffer: 50 mM sodium acetate, pH 6.0 with 100 mM NaCl

Virginia B Patel

Virginia B. Patel PhD

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

Product Datasheet

Product:	Lysozyme, Human Neutrophil
Catalog Number:	16-14-122519
Description:	Lyophilized
Buffer:	50 mM sodium acetate, pH 6.0 with 100 mM NaCl
Purity:	>=95% by SDS-PAGE
Activity:	>30,000 Sugar units per mg. One unit is defined as the amount of enzyme which will digest powdered cells of <i>Micrococcus lysodeikticus</i> , causing a decrease in absorbancy of 0.001 per minute at 37°C, pH 7.0.
Molecular Weight:	MW 14,700
Protein Determination:	Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 2.51$
Storage:	<= -20° C
Stability:	> 1 year
Available Packaging:	100 µg per vial Larger aliquots upon request
Source:	Human Neutrophil
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.

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
ISO9001:2008

Certificate Of Origin

Product Name:	Lysozyme, Human Neutrophil
Catalog Number:	16-14-122519
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.**