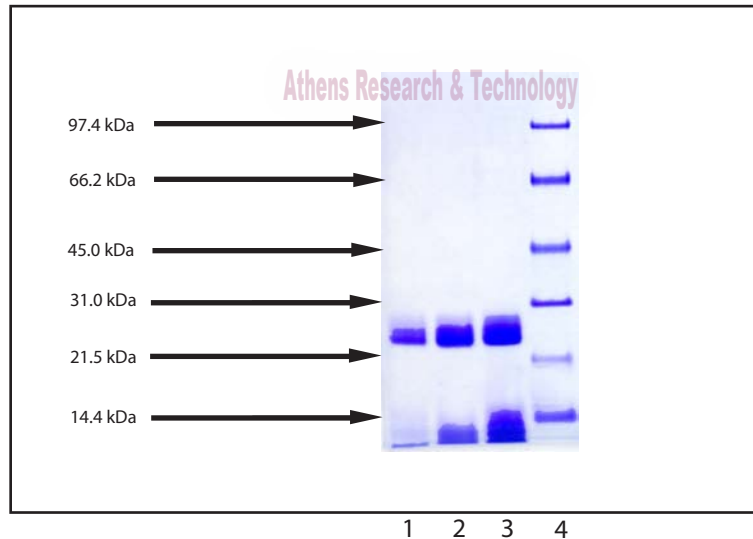


Athens Research & Technology

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Gel Scan of Representative Lot

Elastase, Human Neutrophil
ART Catalog No. 16-14-051200



SDS-PAGE:

4-12% Bis-Tris NuPAGE gel

1. Elastase - 5 μ g (reduced / heated)
2. Elastase - 10 μ g (reduced/ heated)
3. Elastase - 20 μ g (reduced / heated)
4. LMW Standard (BIO-RAD Cat. No. 161-0304)

Molecular Weight: 29,500

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 0.985$

Activity:

20-22 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one micromole of MeO-Suc-Ala-Ala-Pro-Val-pNA per minute at 25°C in 100 mM Tris-HCl, pH 7.5, with 500 mM NaCl.

Physical Specifications:

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

Considerations:

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

Stability > 1 year

Buffer: De-ionized water

Virginia B. Patel PhD

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Product Datasheet

Product:	Elastase, Human Neutrophil
Catalog Number:	16-14-051200
Description:	Lyophilized
Buffer:	De-ionized water
Purity:	>=95% by SDS-PAGE
Activity:	20-22 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one micromole of MeO-Suc-Ala-Ala-Pro-Val-pNA per minute at 25°C in 100 mM Tris-HCl, pH 7.5, with 500 mM NaCl.
Molecular Weight:	MW 29,500
Protein Determination:	Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 0.985$
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 or further manufacturing use only.**

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ISO9001:2008

Certificate Of Origin

Product Name:	Elastase, Human Neutrophil
Catalog Number:	16-14-051200
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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For research use or for use in further manufacturing.**