

## New England Biolabs Certificate of Analysis

**Product Name:** *a-Lytic Protease*  
**Catalog Number:** *P8113L*  
**Concentration:** *0.4 mg/ml*  
**Packaging Lot Number:** *10219639*  
**Expiration Date:** *11/2025*  
**Storage Temperature:** *-20°C*  
**Storage Conditions:** *10 mM Sodium Acetate (pH 5.0 @25°C)*  
**Specification Version:** *PS-P8113S/L v1.0*

a-Lytic Protease Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P8113SVIAL	a-Lytic Protease	10215618	Pass

Assay Name/Specification	Lot # 10219639
<b>Functional Testing (Calcitonin Peptide Digestion)</b> A 20 µl reaction in 50 mM Ammonium Bicarbonate (pH 8 @ 25°C) containing 2 µg of human calcitonin peptide and 0.1 µg of α-Lytic Protease incubated for 1 hour at 37°C results in the expected digestion products as determined by LC-MS analysis.	<b>Pass</b>
<b>Functional Testing (Myoglobin Digestion)</b> A 20 µl reaction in 50 mM Ammonium Bicarbonate (pH 8 @ 25°C) containing 2 µg of Myoglobin protein and 0.1 µg of α-Lytic Protease incubated for 16 hours at 37°C results in the expected digestion products as determined by LC-MS analysis.	<b>Pass</b>
<b>Specific Activity (Spectrophotometric)</b> The specific activity of α-Lytic Protease is ≥ 0.1 mmol min <sup>-1</sup> mg <sup>-1</sup> .	<b>Pass</b>

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Beth M. Paschal*

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Beth Paschal  
Production Scientist  
17 Nov 2023

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
27 Nov 2023