

## New England Biolabs Certificate of Analysis

**Product Name:** *a-Lytic Protease*  
**Catalog Number:** *P8113S*  
**Concentration:** *0.4 mg/ml*  
**Packaging Lot Number:** *10109978*  
**Expiration Date:** *08/2023*  
**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	10117455	Pass

Assay Name/Specification	Lot # 10109978
<b>Specific Activity (Spectrophotometric)</b> The specific activity of $\alpha$ -Lytic Protease is $\geq 0.1$ mmol min <sup>-1</sup> mg <sup>-1</sup> .	Pass
<b>Functional Testing (Myoglobin Digestion)</b> A 20 $\mu$ l reaction in 50 mM Ammonium Bicarbonate (pH 8 @ 25°C) containing 2 $\mu$ g of Myoglobin protein and 0.1 $\mu$ g of $\alpha$ -Lytic Protease incubated for 16 hours at 37°C results in the expected digestion products as determined by LC-MS analysis.	Pass
<b>Functional Testing (Calcitonin Peptide Digestion)</b> A 20 $\mu$ l reaction in 50 mM Ammonium Bicarbonate (pH 8 @ 25°C) containing 2 $\mu$ g of human calcitonin peptide and 0.1 $\mu$ g of $\alpha$ -Lytic Protease incubated for 1 hour at 37°C results in the expected digestion products as determined by LC-MS analysis.	Pass

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

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12 Oct 2021



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Michael Tonello  
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12 Oct 2021