

## New England Biolabs Product Specification

*Product Name:*  $\alpha$ -Lytic Protease  
*Catalog #:* P8113S/L  
*Concentration:* 0.4 mg/ml  
*Shelf Life:* 24 months  
*Storage Temp:* -20°C  
*Storage Conditions:* 10 mM Sodium Acetate (pH 5.0 @25°C)  
*Specification Version:* PS-P8113S/L v1.0  
*Effective Date:* 01 Mar 2019

### Assay Name/Specification (minimum release criteria)

**Functional Testing (Calcitonin Peptide Digestion)** - 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.

**Functional Testing (Myoglobin Digestion)** - 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.

**Specific Activity (Spectrophotometric)** - The specific activity of  $\alpha$ -Lytic Protease is  $\geq 0.1$  mmol min<sup>-1</sup> mg<sup>-1</sup>.

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.



Date 01 Mar 2019

Derek Robinson  
Quality Approver

