

## New England Biolabs Certificate of Analysis

**Product Name:** Factor Xa Protease  
**Catalog #:** P8010S/L  
**Concentration:** 1 mg/ml  
**Unit Definition:** 1 µg of Factor Xa will cleave 50 µg of MBP fusion protein test substrate, MBP-ΔSal to 95% completion in a total reaction volume of 50 µl in 6 hours or less at 23°C in 20 mM Tris-HCl (pH 8.0 @ 25°C) with 100 mM NaCl and 2 mM CaCl<sub>2</sub>.  
**Lot #:** 0981803  
**Assay Date:** 03/2018  
**Expiration Date:** 03/2020  
**Storage Temp:** -20°C  
**Storage Conditions:** 500 mM NaCl, 20 mM HEPES, 2 mM CaCl<sub>2</sub>, 50% glycerol, (pH 8.0 @ 25°C)  
**Specification Version:** PS-P8010S/L v1.0  
**Effective Date:** 27 Apr 2018

Assay Name/Specification (minimum release criteria)	Lot #0981803
<b>Functional Testing (Factor Xa, Fusion Cleavage)</b> - A 50 µl reaction in 1X Factor Xa Buffer containing Fusion: MBP – Factor Xa – Paramyosin Delta sal and a minimum of 1 µg of Factor Xa Protease incubated for 6 hours at 25°C results in ≥ 95% cleavage as determined by SDS-PAGE with Coomassie Blue detection.	<b>Pass</b>
<b>Protease Activity (Non-Specific, SDS-PAGE)</b> - A 20 µl reaction in 1X Factor Xa Buffer containing 24 µg of a standard mixture of proteins and a minimum of 5 µg of Factor Xa Protease was incubated for 20 hours at 37°C. After incubation, no detectable degradation of the protein mixture was determined by SDS-PAGE with Coomassie Blue detection.	<b>Pass</b>



Authorized by  
Derek Robinson  
27 Apr 2018



Inspected by  
Alicia Bielik  
20 Mar 2018

