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New England Biolabs Certificate of Analysis

Product Name: Factor Xa Protease

Catalog Number: P8010L Concentration: 1 mg/ml

Unit Definition: 1 µg of Factor Xa will cleave 50 µg of MBP fusion protein test

substrate, MBP- Δ Sal to 95% completion in a total reaction volume of 50 μ l 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 CaCl2.

Lot Number: 10034899
Expiration Date: 01/2021
Storage Temperature: -20°C

Storage Conditions: 500 mM NaCl, 20 mM HEPES, 2 mM CaCl2, 50% glycerol, (pH 8.0 @ 25°C)

Specification Version: PS-P8010S/L v1.0

Factor Xa Protease Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
P8010LVIAL	Factor Xa Protease	10034900	Pass	

Assay Name/Specification	Lot # 10034899
Functional Testing (Factor Xa, Fusion Cleavage)	Pass
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.	
Protease Activity (Non-Specific, SDS-PAGE)	Pass
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.	

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



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Brad Landgraf Production Scientist 18 Jan 2019 Michael Tonello

Packaging Quality Control Inspector

22 Jan 2019

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