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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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-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 CaCl2.
Lot Number:	10047788
Expiration Date:	06/2021
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	10047789	Pass

Assay Name/Specification	Lot # 10047788
<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 $\ge$ 95% cleavage as determined by SDS-PAGE with Coomassie Blue detection.	Pass
<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.	Pass

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





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Brd

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