

New England Biolabs Certificate of Analysis

Product Name: Factor Xa Protease
Catalog Number: P8010S
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.
Packaging Lot Number: 10173171
Expiration Date: 11/2024
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
P8010SVIAL	Factor Xa Protease	10169045	Pass

Assay Name/Specification	Lot # 10173171
Functional Testing (Factor Xa, Fusion Cleavage) 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.	Pass
Protease Activity (Non-Specific, SDS-PAGE) 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Brad Landgraf
Production Scientist
18 Nov 2022



Michael Tonello
Packaging Quality Control Inspector
23 Nov 2022