

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.
Packaging Lot Number: 10089237
Expiration Date: 08/2022
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 | 10080119 | Pass |

| Assay Name/Specification | Lot # 10089237 |
|---|----------------|
| <p>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.</p> | Pass |
| <p>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.</p> | 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.

Alicia Bielik

Alicia Bielik
Production Scientist
07 Dec 2020

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
07 Dec 2020