NEW ENGLAND BioLabs® Inc.

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New England Biolabs
Product Specification

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 CaCl2.*
Shelf Life:	*24 months*
Storage Temp:	*-20°C*
Storage Conditions:	*500 mM NaCl, 20 mM HEPES, 2 mM $CaCl_2$, 50% glycerol, (pH 8.0 @ 25°C)*
Specification Version:	*PS-P8010S/L v1.0*
Effective Date:	*19 Dec 2017*

Assay Name/Specification (minimum release criteria)
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.
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.

Date 19 Dec 2017

Derek Robinson
Director of Quality Control

ISO 9001 Registered Quality Management
ISO 14001 Registered Environmental Management
ISO 13485 Registered Medical Devices