NEW ENGLAND BioLabs® Inc.

240 County Road
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Tel 978-927-5054
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www.neb.com
info@neb.com

# New England Biolabs
# Product Specification

| | |
|---|---|
| *Product Name:* | *Endo F3* |
| *Catalog #:* | *P0771S/L* |
| *Concentration:* | *8,000 units/ml* |
| *Unit Definition:* | *One unit is defined as the amount of enzyme required to cleave > 95% of the carbohydrate from 10 µg Porcine Fibrinogen in 1 hour at 37°C in a total reaction volume of 10 µl.* |
| *Shelf Life:* | *24 months* |
| *Storage Temp:* | *-20°C* |
| *Storage Conditions:* | *50 mM NaCl, 20 mM Tris-HCl, 1 mM EDTA, (pH 7.5 @ 25°C)* |
| *Specification Version:* | *PS-P0771S/L v1.0* |
| *Effective Date:* | *28 Sep 2016* |

| **Assay Name/Specification** (minimum release criteria) |
|---|
| **Glycosidase Activity (Endo F1, F2, H)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled Endo F1, F2, H substrate (Dansylated invertase high mannose) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (β-Mannosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled β-Mannosidase substrate (Manβ1-4Manβ1-4Man-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (β-Xylosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled β-Xylosidase substrate (Xylβ1-4Xylβ1-4Xylβ1-4Xyl-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (β1-3 Galactosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled β -Galactosidase substrate (Galβ1-3GlcNAcβ1-4Galβ1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (β1-4 Galactosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled β -Galactosidase substrate (Galβ1-4GlcNAcβ1-3Galβ1-4Glc -AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (β-*N*-Acetylgalactosaminidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled β-*N*-Acetylgalactosaminidase substrate (GalNAcβ1-4Galβ1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |

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| **Glycosidase Activity (β-*N*-Acetylglucosaminidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled β-*N*-Acetylglucosaminidase substrate (GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α-Glucosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α-Glucosidase substrate (Glcα1-6Glcα1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α-Neuraminidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α-Neuraminidase substrate (Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α1-2 Fucosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fucα1-2Galβ1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α1-3 Fucosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fucα1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α1-3 Galactosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α -Galactosidase substrate (Galα1-3Galβ1-4GlcNAc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α1-3 Mannosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Manα1-3Manβ1-4GlcNAc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α1-6 Galactosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α -Galactosidase substrate (Galα1-6Galα1-6Glcα1-2Fru-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α1-6 Mannosidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Manα1-6Manα1-6(Manα1-3)Man-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |
| **Glycosidase Activity (α-*N*-Acetylgalactosaminidase)** - A 10 µl reaction in Glyco Buffer 4 containing 1 mM of fluorescently-labeled α-*N*-Acetylgalactosaminidase substrate (GalNAcα1-3(Fucα1-2)Galβ1-4Glc-AMC) and 40 units of Endo F3 incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography. |

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| **Assay Name/Specification** (minimum release criteria) |
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| **Protease Activity (SDS-PAGE)** - A 20 µl reaction in 1X Glyco Buffer 4 containing 24 µg of a standard mixture of proteins and a minimum of 80 units of Endo F3 incubated for 20 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection. |
| **Protein Purity Assay (SDS-PAGE)** - Endo F3 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. |

Date 28 Sep 2016

Derek Robinson
Director of Quality Control

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