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New England Biolabs
Certificate of Analysis

Product Name:	*Rapid™ PNGase F (non-reducing format)*
Catalog Number:	*P0711S*
Unit Definition:	*N/A*
Packaging Lot Number:	*10243892*
Expiration Date:	*12/2024*
Storage Temperature:	*4°C*
Storage Conditions:	*50 mM NaCl , 20 mM Tris-HCl , 5 mM EDTA, (pH 7.5 @ 25°C)*
Specification Version:	*PS-P0711S v2.0*

Rapid™ PNGase F (non-reducing format) Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
P0711SVIAL	Rapid™ PNGase F (non-reducing format)	10221764	**Pass**
B0717SVIAL	5X Rapid PNGase F Buffer (non-reducing format)	10221912	**Pass**

Assay Name/Specification	**Lot # 10243892**
Glycosidase Activity (Endo F1, F2, H) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled Endo F1, F2, H substrate (Dansylated invertase high mannose) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (Endo F2, F3) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled Endo F2, F3 substrate (Dansylated fibrinogen biantennary) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α-Glucosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Glucosidase substrate (Glcα1-6Glcα1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α-N-Acetylgalactosaminidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-N-Acetylgalactosaminidase substrate (GalNAcα1-3(Fucα1-2)Galβ1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format)	**Pass**

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incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	
Glycosidase Activity (α-Neuraminidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Neuraminidase substrate (Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α1-2 Fucosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fucα1-2Galβ1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α1-3 Fucosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fucα1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α1-3 Galactosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-3Galβ1-4GlcNAc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α1-3 Mannosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Manα1-3Manβ1-4GlcNAc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α1-6 Galactosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-6Galα1-6Glcα1-2Fru-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α1-6 Mannosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of	**Pass**

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fluorescently-labeled α-Mannosidase substrate (Manα1-6Manα1-6(Manα1-3)Man-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	
Glycosidase Activity (β-Mannosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled β-Mannosidase substrate (Manβ1-4Manβ1-4Man-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (β-N-Acetylgalactosaminidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled β-N-Acetylgalactosaminidase substrate (GalNAcβ1-4Galβ1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (β-N-Acetylglucosaminidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled β-N-Acetylglucosaminidase substrate (GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (β-Xylosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled β-Xylosidase substrate (Xylβ1-4Xylβ1-4Xylβ1-4Xyl-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (β1-3 Galactosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-3GlcNAcβ1-4Galβ1-4Glc-AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (β1-4 Galactosidase) A 10 µl reaction in Rapid PNGase F Buffer (non-reducing format) containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-4GlcNAcβ1-3Galβ1-4Glc -AMC) and 1 µl of Rapid PNGase F (non-reducing format) incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Protease Activity (SDS-PAGE)	**Pass**

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A 20 µl reaction in 1X Rapid PNGase F Buffer (non-reducing format) containing 24 µg of a standard mixture of proteins and a minimum of 5 µl of Rapid PNGase F (non-reducing format) 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) Rapid PNGase F (non-reducing format) is ≥ 95% pure as determined by SDS-PAGE analysis using 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.

Maxwell Elkus
Production Scientist
16 Jan 2024

Michael Tonello
Packaging Quality Control Inspector
15 May 2024