240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Product Name:	*N-Glycopeptide Binding Protein*
Catalog Number:	*P0872S*
Concentration:	*1 mg/ml*
Packaging Lot Number:	*10236187*
Expiration Date:	*03/2026*
Storage Temperature:	*-20°C*
Storage Conditions:	*20 mM Tris-HCl, 50 mM NaCl, 0.2 mM TCEP (pH 8.0 @ 25°C)*
Specification Version:	*PS-P0872S v1.0*

N-Glycopeptide Binding Protein Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
P0872SVIAL	N-Glycopeptide Binding Protein	10235415	**Pass**

Assay Name/Specification	**Lot # 10236187**
Functional Testing (N-Glycan Enrichment) A 200 µl reaction in 20 mM Tris-HCl, 50 mM NaCl, 0.2 mM TCEP, 10% acetonitrile, pH 8.0 containing 1 nmol of fluorescently labeled sialylglycopeptide and 100 µg N-Glycopeptide Binding Protein incubated for 30 minutes at 4°C results in ≥40% enrichment as determined by UV-Vis Spectroscopy at 520 nm.	**Pass**
Glycosidase Activity (PNGase F) A 10 µl reaction in Glyco Buffer 1 containing 1 nM of fluorescently-labeled PNGase F substrate (Fluoresceinated fetuin triantennary) and 100 µg of N-Glycopeptide Binding Protein incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Glycosidase Activity (α-Neuraminidase) A 10 µl reaction in Glyco Buffer 1 containing 1 nM of fluorescently-labeled α-Neuraminidase substrate (Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AMC) and 100 µg of N-Glycopeptide Binding Protein 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 Glyco Buffer 1 containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-3Galβ1-4GlcNAc-AMC) and 100 µg of N-Glycopeptide Binding Protein incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**

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Assay Name/Specification	Lot # 10236187
Glycosidase Activity (α1-6 Galactosidase) A 10 µl reaction in Glyco Buffer 1 containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-6Galα1-6Glcα1-2Fru-AMC) and 100 µg of N-Glycopeptide Binding Protein 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 Glyco Buffer 1 containing 1 nM of fluorescently-labeled β-N-Acetylglucosaminidase substrate (GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AMC) and 100 µg of N-Glycopeptide Binding Protein 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 Glyco Buffer 1 containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-3GlcNAcβ1-4Galβ1-4Glc-AMC) and 100 µg of N-Glycopeptide Binding Protein 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 Glyco Buffer 1 containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-4GlcNAcβ1-3Galβ1-4Glc -AMC) and 100 µg of N-Glycopeptide Binding Protein incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.	**Pass**
Protein Purity Assay (SDS-PAGE) N-Glycopeptide Binding Protein 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.

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Maxwell Elkus
Production Scientist
08 Mar 2024

Michael Tonello
Packaging Quality Control Inspector
12 Mar 2024