

New England Biolabs Certificate of Analysis

Product Name: O-Glycoprotease (IMPa)
Catalog Number: P0761S
Concentration: 1,000 U/ml
Unit Definition: One unit of O-Glycoprotease will cleave >90% of 2 μ M FAM-labeled O-glycopeptide in a total reaction volume of 20 μ l in 2 hours at 37°C in 20mM Tris-HCl, pH 8.0.
Packaging Lot Number: 10188084
Expiration Date: 04/2025
Storage Temperature: -20°C
Storage Conditions: 20 mM Tris-HCl, 100 mM NaCl (pH 7.5 @ 25°C)
Specification Version: PS-P0761S v2.0

| O-Glycoprotease (IMPa) Component List | | | |
|---------------------------------------|------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| P0761SVIAL | O-Glycoprotease (IMPa) | 10182787 | Pass |

| Assay Name/Specification | Lot # 10188084 |
|---|----------------|
| <p>Glycosidase Activity (Endo F1, F2, H) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled Endo F1, F2, H substrate (Dansylated invertase high mannose) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (Endo F2, F3) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled Endo F2, F3 substrate (Dansylated fibrinogen biantennary) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (PNGase F) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled PNGase F substrate (Fluoresceinated fetuin triantennary) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α-Glucosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of</p> | Pass |

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| <p>fluorescently-labeled α-Glucosidase substrate (Glcα1-6Glcα1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | |
| <p>Glycosidase Activity (α-N-Acetylgalactosaminidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-N-Acetylgalactosaminidase substrate (GalNAcα1-3(Fucα1-2)Galβ1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α-Neuraminidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Neuraminidase substrate (Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α1-2 Fucosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fucα1-2Galβ1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α1-3 Fucosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Fucosidase substrate (Fucα1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α1-3 Galactosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-3Galβ1-4GlcNAc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α1-3 Mannosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Manα1-3Manβ1-4GlcNAc-AMC) and 2 units of O-Glycoprotease (IMPa) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |

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| <p>Glycosidase Activity (α1-6 Galactosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Galactosidase substrate (Galα1-6Galα1-6Glcα1-2Fru-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (α1-6 Mannosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled α-Mannosidase substrate (Manα1-6Manα1-6(Manα1-3)Man-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (β-Mannosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled β-Mannosidase substrate (Manβ1-4Manβ1-4Man-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (β-N-Acetylgalactosaminidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled β-N-Acetylgalactosaminidase substrate (GalNAcβ1-4Galβ1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (β-N-Acetylglucosaminidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled β-N-Acetylglucosaminidase substrate (GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (β-Xylosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled β-Xylosidase substrate (Xylβ1-4Xylβ1-4Xylβ1-4Xyl-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Glycosidase Activity (β1-3 Galactosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-3GlcNAcβ1-4Galβ1-4Glc-AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |

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| <p>Glycosidase Activity (β1-4 Galactosidase) A 10 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 1 nM of fluorescently-labeled β-Galactosidase substrate (Galβ1-4GlcNAcβ1-3Galβ1-4Glc -AMC) and 2 units of O-Glycoprotease (IMPα) incubated for 20 hours at 37°C results in no detectable activity as determined by thin layer chromatography.</p> | Pass |
| <p>Protease Activity (Non-Specific, SDS-PAGE) A 20 μl reaction in 20 mM Tris-HCl (pH 8.0 @ 25°C) containing 24 μg of a standard mixture of proteins and a minimum of 5 units of O-Glycoprotease (IMPα) 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 |

This product has been tested and shown to be in compliance with all specifications.

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Maxwell Elkus
Production Scientist
12 Apr 2023



Michael Tonello
Packaging Quality Control Inspector
12 Apr 2023