ThermoFisher SCIENTIFIC

Certificate of Analysis

PNGase F Glycan Cleavage Kit

Product No.	A39245, 16347381
Lot No.	2994234
Date of Manufacture	11-Sep-2024
Expiration Date	21-Feb-2026

Glycosidase Activity (Endo F1, F2, H):

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled Endo F1, F2, H substrate (Dansylated invertase high mannose) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (Endo F2, F3):

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled Endo F2, F3 substrate (Dansylated fibrinogen biantennary) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A-Glucosidase):

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Glucosidase substrate (GlcA1-6GlcA1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A-N-Acetylgalactosaminidase):

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-N-Acetylgalactosaminidase substrate (GalNAcA1-3(FucA1-2)GalB1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no

detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A-Neuraminidase):

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Neuraminidase substrate (Neu5AcA2-3GalB1-3GlcNAcB1-3GalB1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A1-2 Fucosidase):

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Fucosidase substrate (FucA1-2GalB1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A1-3 Fucosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Fucosidase substrate (FucA1-3GalB1-4GlcNAcB1-3GalB1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A1-3 Galactosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Galactosidase substrate (GalA1-3GalB1-4GlcNAc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A1-3 Mannosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Mannosidase substrate (ManA1-3ManB1-4GlcNAc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (A1-6 Galactosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Galactosidase substrate (GalA1-6GalA1-6GlcA1-2Fru-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meet Specification

Glycosidase Activity (A1-6 Mannosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled A-Mannosidase substrate (ManA1-6ManA1-6(ManA1-3)Man-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (B-Mannosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled B-Mannosidase substrate (ManB1-4ManB1-4Man-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (B-N-Acetylgalactosaminidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled B-N-Acetylgalactosaminidase substrate (GalNAcB1-4GalB1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (B-N-Acetylglucosaminidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled B-N-Acetylglucosaminidase substrate (GlcNAcB1-4GlcNAcB1-4GlcNAc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (B-Xylosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled B-Xylosidase substrate (XylB1-4XylB1-4XylB1-4Xyl-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (B1-3 Galactosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled B-Galactosidase substrate (GalB1-3GlcNAcB1-4GalB1-4Glc-AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Glycosidase Activity (B1-4 Galactosidase)

Specification: A 10 µl reaction in Glyco Buffer 2 containing 1 nM of fluorescently-labeled B-Galactosidase substrate (GalB1-4GlcNAcB1-3GalB1-4Glc -AMC) and 5,000 units of PNGase F, Recombinant incubated for 20 hours at 37ºC results in no detectable activity as determined by thin layer chromatography.

Result: Meets Specification

Protease Activity (SDS-PAGE)

Specification: A 20 µl reaction in 1X Glyco Buffer 2 containing 24 µg of a standard mixture of proteins and a minimum of 10,000 units of PNGase F, Recombinant 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.

Result: Meets Specification

Protein Purity Assay (SDS-PAGE)

Specification: PNGase F, Recombinant is greater than equal to 95% pure as determined by SDS-PAGE analysis using
Coomassie Blue detection.

Result: Meets Specification

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Issued on 11-Sep-2024