

# Certificate of Analysis

## PNGase F Glycan Cleavage Kit

Product No. A39245, 16347381

Lot No. 2842912

Date of Manufacture 04-Mar-2024

Expiration Date 22-Aug-2025

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### 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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 37°C 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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A handwritten signature in blue ink, appearing to read 'Chevohn Joseph', with a long horizontal flourish extending to the right.

Chevohn Joseph  
Director, Quality  
Issued on 05-Mar-2024