



CERTIFICATE OF ANALYSIS

PRODUCT NAME: N-GLYCANASE[®]-PLUS (recombinant from *Elizabethkingia meningoseptica*¹, expressed in *E. coli*)

PRODUCT CODE: GKE-5010D

LOT NUMBER: 502 007-1a

FORMULATION: A sterile-filtered solution in 20 mM Tris-HCl, 50 mM NaCl, 1 mM EDTA (pH 7.5)

STORAGE: Store enzyme at 2-8°C or -20°C, but avoid repeated freeze-thawing

PACK SIZE: 1 Unit

FILL VOLUME: 100 µl per vial

EXPIRATION: February 2019

QUALITY CONTROL

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|----|-------------------------------|--------|-----------------------------------|
| 1. | Activity ¹ : | Passed | (Specification: ≥10 U/ml) |
| 2. | Specific activity: | Passed | (Specification: ≥10 U/mg) |
| 3. | Protease assay ² : | Passed | (Specification: "Not detectable") |
| 4. | Contaminants ³ : | Passed | (Specification: ≤0.001%) |

Authorized Signature

1. The source organism was previously known as *Chryseobacterium [Flavobacterium] meningosepticum*
2. One unit of N-Glycanase is defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 µmole of denatured ribonuclease B per minute at pH 7.5 and 37°C.
3. No protease activity was detectable after incubation of the enzyme with 0.2 mg resorufin-labeled casein for ~18 hours at 37°C based on Schickaneder E, Hösel W, von der Eltz H, Geuß U. Casein-resorufin, a new substrate for a highly sensitive protease assay. Fresenius Z. Anal Chem. 1988 330:360.
4. The absence of exoglycosidase contaminants was confirmed by extended incubations with the corresponding pNP-glycosides: α-fucosidase, β-fucosidase, α-mannosidase, β-mannosidase, α-galactosidase, β-galactosidase, β-N-acetylhexosaminidase, α-N-acetylgalactosaminidase, α-glucosidase, β-glucosidase and β-xylosidase. The absence of contaminating sialidase was confirmed by extended incubation with MU-NANA.