CERTIFICATE OF ANALYSIS

PRODUCT NAME:	N-GLYCANASE® (EDTA-Free) (recombinant from *Elizabethkingia meningoseptica*[1], expressed in *E. coli*)
PRODUCT CODE:	GKE-5016D
LOT NUMBER:	511 008-1b
FORMULATION:	A sterile-filtered solution in 20 m*M* Tris-HCl, 50 m*M* NaCl (pH 7.5)
STORAGE:	Store enzyme at 2-8°C
PACK SIZE:	1 Unit
FILL VOLUME:	400 µl per vial
EXPIRATION:	October 2019

QUALITY CONTROL

1.	Activity[2]:	Passed	(Specification: ≥2.5 U/ml)
2.	Specific activity:	Passed	(Specification: ≥10 U/mg)
3.	Protease assay[3]:	Passed	(Specification: "Not detectable")
4.	Contaminants[4]:	Passed	(Specification: ≤0.001%)

Digitally signed by Shiva Pourkaveh
Date: 2018.04.20 15:19:59 -07'00'

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.

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