



## CERTIFICATE OF ANALYSIS

PRODUCT NAME: N-GLYCANASE<sup>®</sup> ULTRA  
(recombinant from *Elizabethkingia meningoseptica*<sup>1</sup>, expressed in *E. coli*)

PRODUCT CODE: GKE-5020D

LOT NUMBER: 521 008-1a

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

STORAGE: Store enzyme at 2 - 8°C

PACK SIZE: 1 Unit

FILL VOLUME: 100 µl per vial

EXPIRATION: October 2019

N-Glycanase Ultra is specifically formulated for efficient deglycosylation of N-linked glycans and is equivalent to the enzyme packaged in the GlykoPrep<sup>®</sup> platform for Rapid N-Glycan release and labeling.

### QUALITY CONTROL

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

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Authorized Signature

1. The source organism was previously known as *Chryseobacterium [Flavobacterium] meningosepticum*
2. One unit of N-Glycanase-ULTRA 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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