



CERTIFICATE OF ANALYSIS

PRODUCT NAME: GLYKO® ENDOGLYCOSIDASE H (recombinant from *Streptomyces plicatus*, expressed in *E. coli*)

PRODUCT CODE: GKE-5002

LOT NUMBER: 159 008a-1

FORMULATION: A sterile-filtered solution in 50 mM sodium phosphate, 25 mM EDTA, (pH 7.0) and 0.05% sodium azide

STORAGE: -20°C, avoid repeated freeze-thaw cycles.

PACK SIZE: 30 mU

FILL VOLUME: 200 µl per vial

EXPIRATION: December 2018

QUALITY CONTROL

1.	Activity ¹ :	Passed	(Specification: ≥0.15 U/ml)
2.	Specific activity:	Passed	(Specification: ≥5 U/mg)
3.	Protease assay ² :	Passed	(Specification: "Not detectable")
4.	Contaminants ³ :	Passed	(Specification: ≤0.05%)

Authorized Signature

1. One unit of Endo H is defined as the amount of enzyme required to hydrolyze one micromole of dansylated ovalbumin glycopeptide Dns-Asn-(GlcNAc)₂(Man)₆ per minute at pH 5.5 and 37°C. **This formulation was previously reported by Glyko, Inc. to be ≥1 U/ml.**
2. 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.
3. 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.