



CERTIFICATE OF ANALYSIS

PRODUCT NAME: GLYKO® SIALIDASE A™-51 (recombinant from *Arthrobacter ureafaciens* expressed in *E. coli*)

PRODUCT CODE: GK80045

LOT NUMBER: DG32 017d

MOLECULAR WEIGHT: ~51 kDa

FORMULATION: A sterile-filtered solution in 20 mM Tris-HCl, 25 mM NaCl (pH 7.5)

STORAGE: Store enzyme at 2 - 8°C

PACK SIZE: 1 Unit

FILL VOLUME: 200 µl per vial

EXPIRATION: March 2018 (extended from prior exp. date based on re-assay)

RE-ASSAY DATE: March 2017

QUALITY CONTROL

1.	Activity ¹ :	Passed	(Specification: ≥5 U/ml)
2.	Specific Activity:	Passed	(Specification: ≥40 U/mg)
3.	Protease Assay ² :	Passed	(Specification: "Not Detectable")
4.	Contaminants ³ :	Passed	(Specification: ≤0.001%)

Authorized Signature

1. One unit is defined as the amount of enzyme required to catalyze the release of 1 µmole of p-nitrophenol from pNP-α-D-N-acetylneuraminic acid per minute at pH 5.5 and 37°C.
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, β-N-acetylhexosaminidase, α-N-acetylgalactosaminidase, α-galactosidase, β-galactosidase, α-glucosidase, β-glucosidase and β-xylosidase.