

CERTIFICATE OF ANALYSIS

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

PRODUCT CODE: GK80040B

LOT NUMBER: DH63 007

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

STORAGE: 2 - 8°C

PACK SIZE: 1.25 Unit

FILL VOLUME: 100 µl per vial

EXPIRATION: August 2019 (extended from prior exp. date based on re-assay)

RE-ASSAY DATE: November 2018

QUALITY CONTROL

1.	Activity ¹ :	Passed	(Specification: ≥12.5 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.