



CERTIFICATE OF ANALYSIS

Version 3.7

revised on August 23, 2019

Beta-N-acetylglucosaminidase

PRODUCT NAME: Beta-N-acetylglucosaminidase
PRODUCT NUMBERS: E-GL01, E-GL01-200, E-GL01-20
KE-DG01, KE-DGMX

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LOT NUMBER: 502.1A
EXPIRATION DATE: June 03, 2021
ASSAY DATE: August 20, 2019

SOURCE: recombinant gene from *Streptococcus pneumoniae* expressed in *E. Coli*
FORMULATION: 20 mM Tris-HCl pH 7.5, 25 mM NaCl filter sterilized
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity¹ 50 U/ml (Specification: ≥ 40 U/ml)
Specific Activity² 118 U/mg (Specification: ≥ 80 U/mg)

CONTAMINATING ACTIVITY ASSAYS:
Protease Assay³ Passed (Specification "Passed")

1. Defined as the amount of enzyme required to produce 1 μ mole of p-nitrophenol in 1 minute at 37°C, pH 5.0 from p-nitrophenyl-Beta-D-N-acetyl-glucosaminide
2. Protein concentration determined by Bradford method, using BSA as a standard.
3. For the protease assay, 10 μ g of denatured BSA is incubated at 37°C for 24 hr with 2 ul of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.

President - QA-Bio Inc
Authorized by Mike Gibson
August 23, 2019