



# CERTIFICATE OF ANALYSIS

Version 3.7

revised on May 25, 2021

## Neuraminidase Au

PRODUCT NAME: Neuraminidase Au  
PRODUCT NUMBERS: E-S001, E-S001-200, E-S001-20  
KE-DG01, KE-DGMX

LOT NUMBER: 105.1A  
EXPIRATION DATE: December 3, 2023  
ASSAY DATE: May 24, 2021

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

ACTIVITY: Activity<sup>1</sup> 5 U/ml (Specification: ≥ 5 U/ml)  
Specific Activity<sup>2</sup> 210 U/mg (Specification: ≥ 135 U/mg)

CONTAMINATING ACTIVITY ASSAYS:  
Protease Assay<sup>3</sup> Passed (Specification "Passed")

1. Defined as the amount of enzyme required to produce 1  $\mu$ mole of methylumbelliferone in 1 minute at 37°C, pH 5.0 from MU-NANA [2'-(4-methylumbelliferyl)-alpha-D-N-acetylneuraminic acid].
2. Protein concentration determined by Bradford method, using BSA as a standard.
3. For the protease assay, 10  $\mu$ 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  
May 25, 2021