



# CERTIFICATE OF ANALYSIS

Version 3.7  
revised on May 28, 2018

## Sialidase Cp

PRODUCT NAME: Sialidase Cp  
PRODUCT NUMBERS: E-S005, E-S005-200, E-S005-20

LOT NUMBER: 312.1C  
EXPIRATION DATE: March 03, 2020  
ASSAY DATE: April 20, 2018

SOURCE: recombinant gene from *Clostridium perfringens* 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> 15 U/ml (Specification: ≥ 10 U/ml)  
Specific Activity<sup>2</sup> 268 U/mg (Specification: ≥ 250 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 28, 2018