



CERTIFICATE OF ANALYSIS

Version 3.7

revised on May 28, 2018

$\alpha(1-6)$ Core Mannosidase

PRODUCT NAME: $\alpha(1-6)$ Core Mannosidase
PRODUCT NUMBERS: E-AM02, E-AM02-200, E-AM02-20

LOT NUMBER: 126.1A
EXPIRATION DATE: March 03, 2020
ASSAY DATE: April 20, 2018

SOURCE: recombinant gene from *Streptococcus pneumoniae* expressed in *E. Coli*
FORMULATION: 50 mM sodium phosphate pH 7.5, 0.1 mM zinc chloride, filter sterilized
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity¹ 1 U/ml (Specification: ≥ 1 U/ml)
Specific Activity² 1.2 U/mg (Specification: ≥ 0.75 U/mg)

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

1. Defined as the amount of enzyme is defined as the amount of enzyme required to produce 2 μ moles of mannose in 1 minute at 37°C, pH 5.0 from Alpha-(1-6) mannanose.
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
May 28, 2018