



CERTIFICATE OF ANALYSIS

Version 3.7

revised on August 23, 2019

Alpha Galactosidase

PRODUCT NAME: Alpha Galactosidase
PRODUCT NUMBERS: E-AG02, E-AG02-200, E-AG02-20
KE-DG01, KE-DGMX

LOT NUMBER: 807.1B
EXPIRATION DATE: June 03, 2021
ASSAY DATE: August 20, 2019

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

ACTIVITY: Activity¹ 400 U/ml (Specification: ≥ 400 U/ml)
Specific Activity² 57 U/mg (Specification: ≥ 30 U/mg)

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

1. Defined as the amount of enzyme required to produce 1 μ 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 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