



CERTIFICATE OF ANALYSIS

Version 3.7
revised on June 4, 2020

Endo- β -Galactosidase

PRODUCT NAME: Endo- β -Galactosidase
PRODUCT NUMBERS: E-XBG01, E-XBG01-200, E-XBG01-20

LOT NUMBER: 512.1B
EXPIRATION DATE: June 3, 2022
ASSAY DATE: May 20, 2020

SOURCE: recombinant gene from *Bacteroides fragilis* expressed in *E. Coli*
FORMULATION: 20 mM Tris-HCl pH 7.5
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity¹ 15 U/ml (Specification: ≥ 14 U/ml)
Specific Activity² 150 U/mg (Specification: ≥ 140 U/mg)

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

1. Defined as the amount of enzyme that will liberate one μ mole of reducing sugar per minute at 37°C and pH 5.8 from bovine corneal keratan sulfate.
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
June 4, 2020