



CERTIFICATE OF ANALYSIS

Version 3.7
revised on May 28, 2018

β(1-3,4,6) Galactosidase

PRODUCT NAME: β(1-3,4,6) Galactosidase
PRODUCT NUMBERS: E-BG02, E-BG02-200, E-BG02-20

LOT NUMBER: 801.1B
EXPIRATION DATE: March 03, 2020
ASSAY DATE: April 20, 2018

SOURCE: Bovine testes
FORMULATION: 20 mM Tris-HCl pH 7.5, 50 mM NaCl, 0.5 mg/ml BSA
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity¹ 5 U/ml (Specification: ≥ 5 U/ml)
Specific Activity² 5.4 U/mg (Specification: ≥ 3 U/mg)

CONTAMINATING ACTIVITY ASSAYS:

Protease Assay ³	Passed	(Specification "Passed")
Glycosidase activity ⁴		
Beta-Galactosidase	Passed	(Specification "Passed")
N-acetylglucosaminidase	Passed	(Specification "Passed")
Alpha-Galactosidase	Passed	(Specification "Passed")

Contaminant tested for:	Substrate:
Protease	Denatured BSA
Beta-Galactosidase	p-nitrophenyl-beta-D-galactopyranoside
N-acetylglucosaminidase	p-nitrophenyl-beta-D-N-acetylglucosaminide
Alpha-Galactosidase	p-nitrophenyl-alpha-D-galactopyranoside

1. Defined as the amount of enzyme required to produce 1 μmole of p-nitrophenol (pNP) in 1 minute at 37°C, pH 4.0 from p-nitrophenyl-Beta-D-galactopyranoside.
2. Protein concentration determined by Bradford method, using BSA as a standard.
3. For the protease assay, 10 μg 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.
4. Unexpected glycosidic activity is tested by incubating the enzyme for 24 hours at 37°C with the appropriate substrates; the detection limit of this assay is 5 μU/ml (IUB). A passing lot will have no detectable activity.

President - QA-Bio Inc
Authorized by Mike Gibson
May 28, 2018