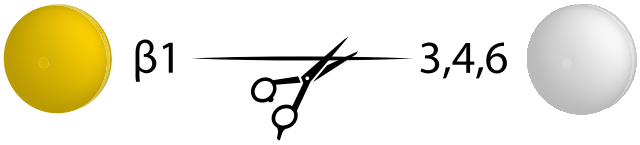

ß(1-3,6)-Galactosidase-multienzyme

Source
recombinant *Xanthamonas* in *E. Coli*
recombinant *Streptococcus pneumoniae* in *E. Coli*

Catalog Number

E-BG05	60 µl
E-BG05-200	200 µl
E-BG05-20	20 µl

Recommended Reagents
included with E-BG05 and E-BG05-20:
1 vial: Reaction buffer – 250 mM NaPO4, pH 5.0

Activity ≥ 6 U/ml
Specific Activity ≥ 70 U/mg

Molecular Weight ~65,000 and 240,000 daltons

Formulation
The enzyme is provided as a sterile-filtered solution in 20 mM Tris, .25 mM NaCl (pH 7.5).

Specific Activity
One unit of ß-(1-3,4,6)-galactosidase is defined as the amount of enzyme required to produce 1 µmole of p-nitrophenol (pNP) in 1 minute at 37°C pH 5 from p-nitrophenyl-beta-D-galactopyranoside.

Specificity
Non-reducing terminal β-linked galactose. Fucose linked to the penultimate N- acetylglucosamine will block cleavage of the galactose.

Stability
Stable at least 24 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.

Storage
Store enzyme at 4°C. Do not freeze.

Purity
ß(1-3,4,6)-Galactosidase is tested for contaminating protease as follows: 10 µg of denatured BSA is incubated at 37°C for 24 hours with 2 µl of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.

The production host strain has been extensively tested and does not produce any detectable glycosidases.

ß-(1-3,4,6)Galactosidase Specifications - Protocol

QA-Bio
www.QA-Bio.com
info@QA-Bio.com

phone (Asia) +65 3158 9855
phone (Europe) +48 22 104 0892
phone (USA) +1 760 249 2664

Directions for use

1. Add up to 100 µg of asialoglycoprotein or 1 nmol of oligosaccharide to tube.

2. Add deionized water to a total of 13 µl.

3. Add 4 µl of 5x Reaction Buffer 5.0.

4. Add 2 µl ß(1-3,6) Galactosidase.

5. Incubate at 37°C for 1 hour.

For glycoproteins, cleavage may be monitored by SDS-PAGE if the size differential between native and de-galactosylated protein is sufficient for detection.

References:

Kobata, A. Use of endo- and exoglycosidases for structural studies of glycoconjugates. **Anal Biochem 100:** 1-14 (1979).

Prime, S. J. Dearnley, A.M. Venton, R.B. Parekh and C.J. Edge. Oligosaccharide sequencing based on exo- and endoglycosidase digestion and liquid chromatographic analysis of the products. **J Chromatogr A 720:** 263-274 (1996)

Dwek, R.A. , C.J. Edge, D.J. Harvey, M.R. Wormald and R.B. Parekh. Analysis of glycoprotein-associated oligosaccharides. **Ann Rev Biochem 62:** 65-100 (1993)

Hugovieux-Cotte-Pattatt, N. and J. Robert-Baudouv. Lactose Metabolism in Erwinia chrysanthemi. **J. Bacteriol. 162(1)**: 248-255 (1985)

Warranties and liabilities

QA-Bio, Inc. warrants that the above product conforms to the specifications described herein. Should the product fail for reasons other than through misuse QA-Bio, Inc. will, at its option, replace free of charge or refund the purchase price. This warranty is exclusive and QA-Bio, Inc. makes no other warrants, expressed or implied, including any implied conditions or warranties of merchantability or fitness for any particular purpose.
QA-Bio, Inc. shall not be liable for any incidental, consequential or contingent damages.

This product is intended for *in vitro* research only.

revised on January 16, 2025