β-(1-3,4,>6)-Galactosidase

Source
Bovine testes

Catalog Number
E-BG02

Certification of Analysis Lot Number
901.1B

EC
3.2.1.23

Contents
1 vial: 200 µl (0.5 U) β(1-3,4,>6)-Galactosidase
20 mM Tris-HCl pH 7.5
0.5 mg/ml BSA, 50mM NaCl
400 µl 5x Reaction buffer – 500 mM sodium citrate/phosphate pH 4

Specific Activity 10.2 U/mg
Activity 2.5 U/ml

Rxn pH 4
The supplied buffer concentrate provides the optimal pH for enzyme activity with the standard substrate. If glycosidase treatment is performed at suboptimal pH because of glycoprotein solubility or activity requirements, expect some diminution in enzyme activity.

Specific Activity
One unit of β-(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 4.0 from p-nitrophenyl-β-D-galactopyranoside.

Specificity
Cleaves all β1-3 and β1-4 linked non-reducing, terminal galactose. β1-6 linked galactose is released at a slower rate.

Formulation
The enzyme is provided as a sterile-filtered solution in 20 mM Tris-HCl, 50 mM NaCl, pH 7.5.

Stability
Stable at least 12 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.

Storage
Store enzyme at -20°C.

Purity
The enzyme degrades with time if stored unfrozen due to small amounts of endogenous protease that is not removed by affinity chromatography. Each lot is also tested for contaminating activities by incubating the enzymes with the appropriate substrates for 24 hours; the detection limit is 5 µU/ml (IUB). A passing lot will have no detectable activity.
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 14 µl.
3. Add 4 µl of 5x Reaction Buffer 4.
4. Add 2 µl β-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 degalactosylated protein is sufficient for detection.

References


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This product is intended for in vitro research only.

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