



Alpha-(1-2,3,6)-Mannosidase

Alpha-D-Mannoside Mannohydrolase

Source

Jack Bean

Catalog Number

E-AM01	60 μ l
E-AM01-20	20 μ l
E-AM01-200	200 μ l

EC

3.5.1.24

Recommended Reagents

included with E-AM01:

1 vial: 5x Reaction buffer - 250 mM sodium phosphate
pH 5 - 400 μ l

Activity \geq 9 U/ml

Specific activity \geq 4 U/mg

Specific Activity

One unit of Alpha-(1-2,3,6)-Mannosidase is defined as the amount of enzyme required to hydrolyze 1 μ mole of *p*-nitrophenyl- α -*p*-mannoside to *p*-nitrophenol in 1 minute at pH 5.0 and 37°C.

Molecular Weight two polypeptides of 44 and 64 kD

pH optimum: 5

Storage

Store enzyme at 4°C. Do not freeze.

Specificity

Cleaves all Alpha-(1-2,3,6)-linked mannose.

Formulation

The enzyme is provided as a sterile-filtered solution in 20 mM Tris pH 7.5, 50 mM NaCl, 0.1 mM zinc chloride.

Stability

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

Quality & Purity

QA-Bio α -Mannosidase is tested for contaminating protease as follows: 10 μ g of denatured BSA is incubated at 37°C for 24 hours with 2 μ l of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.

Enzymes purified from native sources are tested for contaminating exoglycosidases. The absence of exoglycosidase contaminants is confirmed by extended incubations with the corresponding pNP-glycosides.

Alpha(1-2,3,6) Mannosidase
Specifications - Protocol

Directions for use

1. Add up to 1 nM of oligosaccharide to tube.
2. Add water to 15 μ l
3. Add 4 μ l 5x Reaction Buffer .
4. Add 1.0 μ l of Mannosidase to the reaction. Incubate 10 minutes at 37°C.

Warranties and liabilities

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

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

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