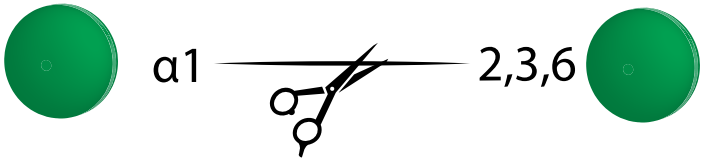


**Alpha-(1-2,3,6)-Mannosidase**
Alpha-D-Mannoside Mannohydrolase

**Source**
Jack Bean

**Catalog Number**

| | |
|---|---|
| E-AM01 | 60 µl |
| E-AM01-20 | 20 µl |
| E-AM01-200 | 200 µl |

**EC**
3.5.1.24

**Recommended Reagents**
included with E-AM01 and E-AM01-20:
1 vial: 5x Reaction buffer - 250 mM sodium phosphate pH 5 - 400 µl

**Activity** ≥ 10 U/ml
**Specific activity** ≥ 5 U/mg

**Specific Activity**
One unit of Alpha-(1-2,3,6)-Mannosidase is defined as the amount of enzyme required to hydrolyze 1 µmole of *p*-nitrophenyl-alpha-*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**
Stable at least 24 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.

**Quality & Purity**
QA-Bio α-Mannosidase 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.

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

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**Directions for use**

1. Add up to 1 nM of oligosaccharide to tube.

2. Add water to 15 µl

3. Add 4 µl 5x Reaction Buffer .

4. Add 1.0 µl 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.

*revised on January 16, 2025*

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