

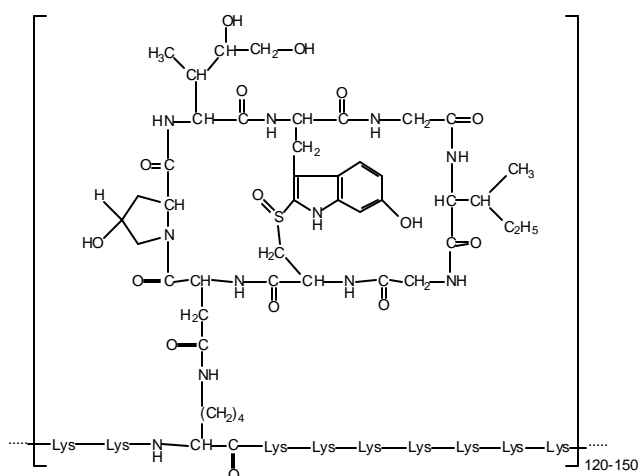
Product Information

β -AMANITIN, POLY-L-LYSINE BOUND

Product Number **A 8100**

Storage Temperature 2-8 °C

Synonyms: (Poly-L-lysyl)- β -amanitin



Product Description

β -Amanitin is a fungal toxin isolated from the mushroom *Amanita phalloides*, also known as the green death cap mushroom. It is a member of the amatoxin family of toxins. Amatoxins, like phallotoxins (another toxin family found in *Amanita phalloides*), are cyclic peptides. Amatoxins have been shown to inhibit eukaryotic RNA polymerase II, thereby inhibiting protein synthesis. Amatoxins have no effect on prokaryotic RNA polymerases.¹ It is predicted that poly-L-lysine bound β -amanitin is approximately 100 fold more potent than

the unbound form, based on experiments with poly-L-ornithine bound β -amanitin.²

Reagent

β -Amanitin, poly-L-lysine bound, is supplied as a lyophilized powder. By weight, each vial contains 2.5% β -amanitin (100 μ g), 12.5% poly-L-lysine (average molecular weight is 25,000) with the balance as sodium chloride as a stabilizer.

Precautions and Disclaimer

WARNING: Extremely hazardous! Be aware of the risks and familiar with safety procedures before you use this product.

Preparation Instructions

β -Amanitin, poly-L-lysine bound, is soluble in water.

Storage

β -Amanitin, poly-L-lysine bound, should be stored at 2-8 °C in a desiccator.

References

- Vetter, J., Toxins of *Amanita phalloides*. *Toxicol.*, **36**, 13-24 (1998).
- Bermbach, U. and Faulstich, H., Epidermal growth factor labeled β -amanitin-poly-L-ornithine: preparation and evidence for specific cytotoxicity. *Biochemistry*, **29**, 6839-6845 (1990).

DMG 6/02

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.