



Specification

α -Amanitine BioChemica

A1485

Physical Description:	Solid
Product Code:	A1485
Product Name:	α -Amanitine BioChemica
Specifications:	Assay (HPLC): min. 95 %
Hazard pictograms	 
UN:	3462
Class/PG:	6.1/II
ADR:	6.1/II
IMDG:	6.1/II
IATA:	6.1/II
WGK:	3
Storage:	2-8°C
Signal Word:	Danger
GHS Symbols:	GHS06 GHS08
H Phrases:	H300+H310+H330 H373
P Phrases:	P260 P301+P310 P320 P330

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Specification

α -Amanitine BioChemica

A1485

	P361+P364 P405 P501
Origin:	from <i>Amanita phalloides</i>
Molecular Formula:	$C_{39}H_{54}N_{10}O_{14}S$
M:	918.98 g/mol
CAS:	23109-05-9
EINECS:	245-432-2
CS:	29339980
Comment	<p>The activity of RNA-Polymerase II is half-maximally inhibited by α-amanitine at 10^{-9} M, while RNA-Polymerase III requires much higher doses (10^{-5} - 10^{-4} M). RNA-Polymerase I is not sensitive at all. The LD₅₀ of the white mouse is 0.3 mg/kg. α-Amanitin is soluble in water, neutral buffer solutions (pH 6 - 8), ethanol, methanol, DMSO or dimethyl formamide. Store solutions at +4°C. The stability of an aqueous solution is 6 - 12 months and up to 2 years for solutions in alcohol, respectively.</p>
Bibliography	<p>(1) Brodner, O.G. & Wieland, T. (1976) <i>Biochemistry</i> 15, 3480-3484 Identification of the Amatoxin-binding subunit of RNA-Polymerase B by affinity labeling experiments. Subunit B 3 - the true Amatoxin receptor protein of multiple RNA Polymerase B. (2) Wieland, T. (1983) <i>Int. J. Peptide Protein Res.</i> 22, 257-276 Review article\: The toxic peptides from Amanita mushrooms.</p>

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