



Specification

**$\alpha$ -Amanitine BioChemica**

**A1485**

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

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## Specification

### **$\alpha$ -Amanitine BioChemica**

**A1485**

	P361+P364 P405 P501
<b>Origin:</b>	from <i>Amanita phalloides</i>
<b>Molecular Formula:</b>	C <sub>39</sub> H <sub>54</sub> N <sub>10</sub> O <sub>14</sub> S
<b>M:</b>	918.98 g/mol
<b>CAS:</b>	23109-05-9
<b>EINECS:</b>	245-432-2
<b>CS:</b>	29339980
<b>Comment</b>	<p>The activity of RNA-Polymerase II is half-maximally inhibited by <math>\alpha</math>-amanitine at 10<sup>-9</sup> M, while RNA-Polymerase III requires much higher doses (10<sup>-5</sup> - 10<sup>-4</sup> M). RNA-Polymerase I is not sensitive at all. The LD<sub>50</sub> of the white mouse is 0.3 mg/kg. <math>\alpha</math>-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>
<b>Bibliography</b>	<p>(1) Brodner, O.G. &amp; Wieland, T. (1976) <i>Biochemistry</i> <b>15</b>, 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> <b>22</b>, 257-276 Review article\): The toxic peptides from Amanita mushrooms.</p>

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