



Specification

**Cytochalasin B *BioChemica***

**A7657**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A7657
<b>Product Name:</b>	Cytochalasin B <i>BioChemica</i>
<b>Specifications:</b>	Assay (HPLC): min. 98 % Solubility (2 %; EtOH): clear, colorless $\lambda_{\text{max}}$ : 220 nm
<b>Hazard pictograms</b>	 
<b>UN:</b>	1544
<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>	1
<b>Storage:</b>	-20°C protected from light
<b>Signal Word:</b>	Danger
<b>GHS Symbols:</b>	GHS06 GHS08
<b>H Phrases:</b>	H300+H310+H330 H361
<b>P Phrases:</b>	P260

**AppliChem GmbH**

Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • [info.de@itwreagents.com](mailto:info.de@itwreagents.com) • [www.itwreagents.com](http://www.itwreagents.com)  
CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340

Specification

**Cytochalasin B BioChemica**

**A7657**

	P264 P280 P284 P302+P352 P310
<b>Origin:</b>	from <i>Drechslera dematoidea</i>
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>37</sub> NO <sub>5</sub>
<b>M:</b>	479.61 g/mol
<b>CAS:</b>	14930-96-2
<b>EINECS:</b>	239-000-2
<b>CS:</b>	29349990
<b>Comment</b>	<p>             Cytochalasin B inhibits, like Cytochalasin A, not just the actin and tubulin filament formation, but the glucose uptake into cells as well. Therefore, if you study the microfilament system, it may be advantageous to employ Cytochalasin D instead, since this drug does not influence glucose uptake. <b>Stability and Solubility:</b> Cytochalasin B dissolved in DMSO shows no decrease in potency even after 3 years if stored at +4°C. In DMF, Cytochalasin B shows the highest solubility with 492 mg/ml. In DMSO 371 mg/ml can be dissolved, while in ethanol solubility drops to 35.4 and in Aceton to 10.3 mg/ml, respectively (Merck Index 13<sup>th</sup> Edition 2001; page 489, monograph 2819). Please note the toxicity of certain solvents. The problem can be circumvented if stock solutions are prepared in high concentrations (100X or even higher e.g. 10 mM) and the solvent becomes diluted if added to the sample. The working concentration is 1 to 20 µM.           </p>

**AppliChem GmbH**

Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • [info.de@itwreagents.com](mailto:info.de@itwreagents.com) • [www.itwreagents.com](http://www.itwreagents.com)  
 CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340