


Specification

**Spermine BioChemica**

**A0672**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A0672
<b>Product Name:</b>	Spermine BioChemica
<b>Specifications:</b>	Assay (titr.): min. 98 % pH (1 M; H <sub>2</sub> O; 20°C): 11.0 - 13.0 Spermidine: max. 0.5 % Water: max. 1.0 % Carbonate: max. 0.5 %
<b>Hazard pictograms</b>	
<b>UN:</b>	3259
<b>Class/PG:</b>	8/II
<b>ADR:</b>	8/II
<b>IMDG:</b>	8/II
<b>IATA:</b>	8/II
<b>WGK:</b>	1
<b>Storage:</b>	2-8°C
<b>Signal Word:</b>	Danger
<b>GHS Symbols:</b>	GHS05
<b>H Phrases:</b>	H314
<b>P Phrases:</b>	P280 P305+P351+P338

**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

**Spermine BioChemica**

**A0672**

	P313
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>26</sub> N <sub>4</sub>
<b>M:</b>	202.34 g/mol
<b>CAS:</b>	71-44-3
<b>EINECS:</b>	200-754-2
<b>CS:</b>	29212900
<b>Comment</b>  Spermine belongs to the Polyamines. When precipitating selectively DNA with the help of Spermine most of the proteins and triphosphates will not coprecipitate. The precipitation with spermidine is applied after restriction digests, the separation of DNA fragments and triphosphates and the purification of DNA fragments after PAGE. Stock solutions are prepared with a concentration of 100mM (pH 6.8, ref. 2) and stored at +4°C (short-term) or at -20°C (long-term). The working concentration is approx 0.1 mM, if the DNA is dissolved in TE.	
<b>Bibliography</b>  (1)Blumenthal, A.B. <i>et al.</i> (1979) <i>J. Cell Biol.</i> <b>81</b> , 255-259Rapid isolation of Metaphase chromosomes containing high molecular weight DNA. (2)Hoopes, B. & McClure, W. (1981) <i>Nucleic Acids Res.</i> <b>9</b> , 5493-5504Studies on the selectivity of DNA precipitation by spermine. (3)Tabor, C.W. & Tabor, H. (1984) <i>Ann. Rev. Biochem.</i> <b>53</b> , 749-790Review article\ Polyamines. (4)Cram, L.S. <i>et al.</i> (1990) <i>Methods Cell Biol.</i> <b>33</b> , 377-382Polyamine buffer for bivariate human flow cytogenetic analysis and sorting.	

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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