


Specification

Spermine BioChemica

A0672

Physical Description:	Solid
Product Code:	A0672
Product Name:	Spermine BioChemica
Specifications:	<p>Assay (titr.): min. 98 %</p> <p>pH (1 M; H₂O; 20°C): 11.0 - 13.0</p> <p>Spermidine: max. 0.5 %</p> <p>Water: max. 1.0 %</p> <p>Carbonate: max. 0.5 %</p>
Hazard pictograms	
UN:	3259
Class/PG:	8/II
ADR:	8/II
IMDG:	8/II
IATA:	8/II
WGK:	1
Storage:	2-8°C
Signal Word:	Danger
GHS Symbols:	GHS05
H Phrases:	H314
P Phrases:	<p>P280</p> <p>P305+P351+P338</p>

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Specification

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	P313
Molecular Formula:	C ₁₀ H ₂₆ N ₄
M:	202.34 g/mol
CAS:	71-44-3
EINECS:	200-754-2
CS:	29212900
Comment 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.	
Bibliography (1)Blumenthal, A.B. <i>et al.</i> (1979) <i>J. Cell Biol.</i> 81 , 255-259Rapid isolation of Metaphase chromosomes containing high molecular weight DNA. (2)Hoopes, B. & McClure, W. (1981) <i>Nucleic Acids Res.</i> 9 , 5493-5504Studies on the selectivity of DNA precipitation by spermine. (3)Tabor, C.W. & Tabor, H. (1984) <i>Ann. Rev. Biochem.</i> 53 , 749-790Review article\ Polyamines. (4)Cram, L.S. <i>et al.</i> (1990) <i>Methods Cell Biol.</i> 33 , 377-382Polyamine buffer for bivariate human flow cytogenetic analysis and sorting.	

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