

Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	21935
Lot Number	000156-00121
Product	Spermine

N,N'-Bis(3-aminopropyl)-1,4-butanediamine

N,N'-Bis(3-aminopropyl)butane-1,4-diamine

CAS Number	71-44-3
Molecular Formula	C ₁₀ H ₂₆ N ₄
Molecular Weight	202.34

Appearance	White crystalline powder
Turbidity	0.2 NTU
Water Content (Karl Fisher)	2.5%
Infrared Spectrum	Conforms to structure
Purity by GC	99.3%
Application	<p>Spermine has been used in the precipitation / crystallization of DNA and is commonly used in molecular biology and biochemistry research. It may be used as a building block for the preparation of gene transfer agents.</p> <p>Spermine has also been utilized in chromosome isolation and in the aggregation of chromatin.</p>
Storage	Store at 0-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager