Spermine (Free base)

Cell Culture Tested

Product Code: TC275

Product Description :

Molecular weight: 202.34
Molecular formula: $NH_2(CH_2)_3NH(CH_2)_4NH(CH_2)_3NH_2$
CAS No.: 71-44-3
Synonym: N,N'-Bis(3-aminopropyl)-1,4-diaminobutane, Gerontine, Musculamine, Neuridine

Spermine is a naturally occurring polyamine that occurs in all eukaryotes and is essential for cell growth in both normal and neoplastic tissue. It is formed through the addition of an aminopropyl group to spermidine by spermine synthase. Spermine is commonly used in molecular biology and biochemistry research. The polycationic character of spermine in solution allows for its use in the precipitation of the DNA from low salt aqueous buffers, and for the isolation of DNA from pulse field gels. Spermine has also been utilized in chromosome isolation and in the aggregation of the chromatin. It can be used as a building block for the preparation of gene transfer agents. Spermine has been used in the crystallization of DNA as well.

Storage and Shelf Life:

Store at 2-8^{0}C.

Use before expiry date given on the product label.

Quality Control:

Appearance
White to pale yellow crystals or powder or low melting solid or liquid

Solubility
33.3 mg soluble in 1 mL of water

FTIR (Liqiud film)
Matches with the standard pattern

Assay (NT/GC)
96.00 -103.00%