

Certificate of Analysis

Date of Testing: 2025-07-01 08:50:00

Date of Next Testing: 2028-06-30 08:50:00

Product Name: **Spermidine trihydrochloride**

CAS Number: 334-50-9

Specifications & Purity: BioReagent, ≥99.5%(AT)

Lot #: F2530413

SKU #: **S755657**

Version: **1**

Analysis #: **532586**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity (Argentmetric Titration)	99-101 (%)	100.03 %
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-10 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	0.00 ppm
PH(1 M in water)	3.0-6.0	4.96
UV Absorbance 260nm(1 M in H ₂ O)	0-0.2	0.03400
UV Absorbance 280nm(1 M in H ₂ O)	0-0.1	0.02400

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Appearance(S755657)	Colorless or White Powder or Crystals or Flakes	Colorless or White Powder or Crystals or Flakes
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility(7.64g in 30ml H ₂ O(1 M)),Clear	Pass	Pass
Colorless		
Infrared spectrum	Conforms to Structure	Conforms to Structure
Residue (filter test)	no residue	no residue

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager