

Certificate of Analysis

Product Name: Spermine tetrahydrochloride
Cat #: S-740
CAS #: 306-67-2
Lot #: Lot Specific
Retest Date[†]: Lot Specific
Storage: Store desiccated at -20°C.

Test	Specs	Results
Color	white to slightly off-white	Complies
Form	crystalline powder	Complies
Color of Solution (1 mol/L in water)	colorless to almost colorless	Complies
Turbidity (1 mol/L in water)	≤15 NTU	<15 NTU
Water Content (K. Fischer)	≤0.5%	<0.5%
pH (1 mol/L in water)	5.0 to 7.0	Complies
Argentometric Titration	98.5 - 101.5%	Complies
UV-Absorption (1 mol/L in water, 260 nm)	≤0.200 AU	<0.200 AU
UV-Absorption (1 mol/L in water, 260 nm)	≤0.150 AU	<0.150 AU
FT-IR Spectrum	corresponds to reference spectrum	Corresponds

* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

† If provided, the Certificate of Analysis (COA) retest date corresponds to the recommended storage conditions provided on the COA. If no retest date is shown, the shelf-life for products is 2 years after purchase when stored according to COA recommendations. Retest dates are not rigid, and often only serve an informational purpose. COA retest dates are supplied by the manufacturer; however, GoldBio product labels may contain different storage recommendations to extend the life of the product beyond the manufacturer retest date or 2 years from purchase.

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