

Certificate of Analysis

Product Name: 5-Aminolevulinic acid hydrochloride
Cat #: A-680
CAS #: 5451-09-2
Lot #: Lot Specific
Retest Date[†]: Lot Specific
Storage: Store at -20°C.

Test	Specs	Results
Color	white to off-white	Complies
Form	crystalline powder	Complies
Color of Solution (5 % in water)	colorless to almost colorless	Complies
Turbidity (0.5 % in water)	≤2.0 NTU	Complies
Water Content (K. Fischer)	≤1.0%	Complies
Melting Point	151-155°C	Complies
Loss on Drying (105°C, 3 h, vacuum)	≤2.0%	Complies
Sulfated Ash	≤0.1%	Complies
Argentometric Titration	98.0-102.0%	Complies
Assay (HPLC)	98.0-102.0%	Complies
TLC (butanol/acetic acid/water 3:1:1; ninhydrin)	corresponds to reference material	Complies
Residual Solvents sum of 2-propanol and acetone	≤0.5 %	Complies
FT-IR Spectrum	corresponds to reference spectrum	Complies

* 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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