



Certificate of Analysis

Product Name: Choline Chloride
CAT #: C-850
CAS #: 67-48-1
LOT #: Lot Specific
Retest Date: Lot Specific
Storage: Store at 2-8 °C

	SPECIFICATIONS	RESULT
Appearance:	White crystalline powder	White crystalline powder
Identification:	Conforms	Conforms
pH:	4.0 – 7.0	5.6
Water:	Not more than 0.5%	0.28%
Residue on Ignition:	Not more than 0.05%	0.28%
Arsenic:	Not more than 2 ppm	< 2 ppm
Lead:	Not more than 0.3 ppm	< 0.3 ppm
Heavy Metals:	Not more than 10 ppm	< 10 ppm
Limit of Amines:	Not more than 0.001%	< 0.001%
Chromatographic Purity:		
Individual purity:	Not more than 0.3%	0.21%
Total impurities:	Not more than 2.0%	1.1%
Organic Volatile Impurities:	Meet requirements	Conforms
Assay:	99.0% - 100.5%	99.6%

* 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.

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