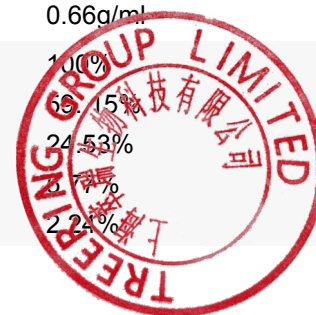


Certificate of Analysis

Product Name: **DL-Choline Bitartrate** Specification: **USP**
Batch No.: **TR20250314** Quantity: **10,000 KGS**
Production Date: **Mar 14-2025** Expiry Date: **Mar 14-2027**

Items	Unit	Standard	Results
Appearance	~	White Hygroscopic Crystal	Conform
*Identification A&B	~	Passes USP Test	Conform
Assay	%	99- 100.5%	0.9959
Choline	%	40.7-41.3%	0.4097
Moisture	%	NMT 0.5 %	0.0013
PH	~	3.0—4.0	3.48
Residue on Ignition	%	NMT 0.1%	0.02%
Heavy Metals	ppm	NMT 10 ppm	Conform
Lead	ppm	NMT 2 ppm	Conform
Arsenic	ppm	NMT 1 ppm	Conform
Cadmium	ppm	NMT 0.2 ppm	Conform
Mercury	ppm	NMT 0.1ppm	Conform
1,4-Dioxane	ppm	NMT 10 ppm	Conform
Total Plate Count	cfu/g	NMT 1000 cfu/g	Conform
Yeast and Mold E.coli	cfu/g	NMT 100 cfu/g Negative/ 10g	Conform Conform
*Salmonella	~	Negative/ 25 g	Conform
*Staphylococcus	~	Negative/ 10g	Conform
Bulk Density	~	0.40—0.60g/ml	0.56g/ml
Tapped Density	~		0.66g/ml
Particle Size	~	Through 20 mesh Through 40 mesh Through 60 mesh Through 80 mesh Through 100 mesh	100% 99.15% 24.53% 7.74% 2.24%



CONCLUSION: Complies with the standard.

PACKING: 25 KGS/Drum

STORAGE: Stored in a cool, dry environment, strictly prohibited storing and shipping with harmful toxic