

Certificate of Analysis

Product Name	DL Choline Bitartrate	Country of Origin Quantity	China 2Kg
Standard	In-house standard	Package	25kg/drum
Batch No.:	CB20250117	MFG: 2025.01.17	EXP: 2027.01.16

Item	Specification	Results
Appearance	White Hygroscopic Crystal	Conform
* Identification A& B	Passes USP Test	Conform
Assay	99-100.5%	99.59%
Choline	40.7-41.3%	40.97%
Moisture	NMT 0.5 %	0.13%
PH(1 in 10)	3.0-4.0	3.48
Residue on Ignition	NMT 0.1%	0.02%
Heavy Metals	NMT 10 ppm	Conform
Lead	NMT 2 ppm	Conform
Arsenic	NMT 1 ppm	Conform
Cadmium	NMT 0.2 ppm	Conform
Mercury	NMT 0.1 ppm	Conform
1,4-Dioxane	NMT 10 ppm	Conform
Total Plate Count	NMT 1000 cfu/g	Conform
Yeast and Mold	NMT 100 cfu/g	Conform
E.coli	Negative/ 10g	Conform
* Salmonella	Negative/ 2.5 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% 59.15% 24.53% 5.77% 2.24%

Packing: 2.5kg/drum with two PE liners inside.

Storage: Preserve in well-closed containers in a cool, dry and well ventilated area.

Tested by: Liu Jun Hong Checked by: Xuguihuan Approved by: Dongmin

