BaseBulk

CERTIFICATE OF ANALYSIS

Product Name:	Choline L-Bitartrate Coated
Batch Number:	CB260403FCLS
Manufacture Date:	03/04/2026
Expiration Date:	02/04/2029

Physical & Chemical Characteristics

Analysis Item	Specification	Result
Appearance	White hygroscopic crystal	Conform
Identification A & B	Passes FCC Test	Conform
Assay before coating	NLT 98.0%	99.51%
Assay after coating	NLT 97.0%	98.22%
Choline	NLT 39.9%	40.35%
Water	NMT 0.5%	0.04%
pH (1 in 10)	3.0–4.0	3.33
Specific Rotation	+17.5° – +18.5°	+17.75°
Residue on ignition	NMT 0.1%	0.03%
Silicon dioxide	0.5–1.0%	0.89%

Heavy Metals

Analysis Item	Specification	Result
Heavy Metals (total)	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

Microbiological Tests

Analysis Item	Specification	Result
Total plate count	NMT 1000 cfu/g	Conform
Yeast & Mold	NMT 100 cfu/g	Conform
E. coli	Negative/10g	Conform
Salmonella	Negative/25g	Conform
Staphylococcus	Negative/10g	Conform

Other Tests

Analysis Item	Specification	Result
1,4-Dioxane	NMT 10 ppm	Conform
Ethylene oxide	NMT 0.1 ppm	Not Detected
Bulk density	0.60–0.80 g/ml	0.72 g/ml
Tapped density	Report	0.79 g/ml
Particle size through 20 mesh	Report	100%
Through 40 mesh	Report	45.60%
Through 60 mesh	Report	14.63%
Through 80 mesh	Report	4.90%
Through 100 mesh	Report	0.27%

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