

Specification of L(+)-Choline Bitartrate

Product: L(+)-Choline Bitartrate

Type: Food Grade

Package:25KG/DRUM

Items of Analysis	Specification	Results
Identification A,B&C	Positive Reaction	Conforms
Appearance	White ,hygroscopic,crystalline powder	Conforms
Assay(calculated on the anhydrous basis)	NLT 98.0%	99.2%
pH(1 in 10)	3.0-4.0	3.49
Water	NMT 0.5%	0.25%
Residue on ignition	NMT 0.1%	0.03%
Specific rotation	+17.5°-- +18.5°	+17.9°
Solubility	Soluble in water	Conforms
Heavy metals	NMT 10mg/kg	<10mg/kg
Lead (Pb)	NMT 2mg/kg	<2mg/kg
Arsenic (As)	NMT 1 mg/kg	<1mg/kg
Mercury (Hg)	NMT 0.1 mg/kg	<0.1mg/kg
Cadmium(Cd)	NMT 1 mg/kg	<1mg/kg
1,4-Dioxane	Passes test	Conforms
Microbial		
Total Plate Count	≤1000CFU/g	<1000CFU/g
Yeast and Mold	≤100CFU/g	<100CFU/g
E.Coli	Negative/25g	Negative
Salmonella	Negative/25g	Negative
Staphylococcus aureus	Negative/25g	Negative
Particle size		
Through 20 Mesh	≥95%	98.7%
Pesticide residues	USP-NF	Conforms

Shelf Life: 36 months

Store in tight containers.