

Certificate Of Analysis

Product Name: L(+)- DMAE Bitartrate
Non GMO **BSE/TSE Free** **Non Irradiation** **Allergen Free**

ITEMS	SPECIFICATION	RESULTS	METHODS
Assay Data			
Assay	≥99.0%	99.68%	Titration
DMAE	≥36.9%	37.14%	Titration
Quality Data			
Appearance	White Crystalline Powder	Conforms	Visual
Identification	Positive Reaction	Conforms	In-house
Water	≤0.5%	0.13%	80°C,4h
pH (10% solution)	3.0-4.0	3.44	pH meter
Specific Rotation	+17.5°- +18.5°	+18.28°	USP<781>
Residue on Ignition	≤0.1%	0.02%	USP<281>
Melting Point	109-114°C	Conforms	In-house
Solution in water	Slightly	Conforms	Visual
Heavy Metals	< 10ppm	Conforms	ICP-MS USP<231>
Lead(Pb)	< 3ppm	Conforms	ICP-MS USP<251>
Arsenic(As)	< 2ppm	Conforms	ICP-MS USP<211>
Cadmium(Cd)	< 1 ppm	Conforms	ICP-MS USP<233>
Mercury(Hg)	< 0.1 ppm	Conforms	ICP-MS USP<233>
Microbiological Data			
Total Plate Count	< 1000 cfu/g	Conforms	USP<2021>
Moulds and Yeast	< 100 cfu/g	Conforms	USP<2021>
E.Coli	Negative	Conforms	USP<2022>
Salmonella	Negative	Conforms	USP<2022>
Staphylococcus	Negative	Conforms	USP<2022>
Addition Data			
Non Irradiation	≤700	Conforms	EN 13751:2002<PSL>
Packing	25kg/drum		
Storage	Store in a cool dry place, avoiding sunlight directly		
Shelf Life	Three Years		

