

SPECIFICATION SHEET

Paraxanthine 98% HPLC

GENERAL INFORMATION

Production Method	Chemical synthesis	Synonym	1,7-Dimethylxanthine
Country of Origin	China	Carrier Used	None
Solvent Used	Removed to USP <467>	Kosher Halal	No No

ITEM	SPECIFICATION		METHOD
PHYSICAL & CHEMICAL			
Identification	Corresponds to Reference Standard		HPLC USP<621>
Appearance	White to off-white powder		Organoleptic
Paraxanthine	NLT (%)	98.0	HPLC USP<621>
Residue on Ignition	NMT (%)	0.1	USP<281>
Particle Size	NLT	95% through 80 mesh	USP<786>
Loss on Drying	NMT (%)	0.5	USP<731>
Bulk Density	Between (g/100ml)	25–60	USP<616> Method I
CONTAMINANTS			
Lead (Pb)	NMT (ppm)	1.0	ICP-MS USP<730>
Arsenic (As)	NMT (ppm)	1.5	ICP-MS USP<730>
Cadmium (Cd)	NMT (ppm)	0.5	ICP-MS USP<730>
Mercury (Hg)	NMT (ppm)	1.0	ICP-MS USP<730>
Solvent Residue	Meets Requirements		GC USP<467>
Pesticide Residue	Not Applicable (synthetic)		USP<561> Modified
MICROBIOLOGICAL			
Total Plate Count	NMT (cfu/g)	1,000	USP<2021>
Yeast & Mold	NMT (cfu/g)	100	USP<2021>
E. Coli	Absent (cfu/10g)		USP<2022>
Salmonella	Absent (cfu/10g)		USP<2022>
Staphylococcus aureus	Absent (cfu/10g)		USP<2022>

PACKING & STORAGE

Packed in a polyethylene lined corrugated package.
Store in a well-closed container away from moisture, light, and heat.

SHELF LIFE

24 months if under the conditions above and in its original packaging.

NOTE

Synthetic nature-identical isolate (paraxanthine). Not extracted from plant biomass. Batch-to-batch consistency is controlled by the manufacturing and purification process.