

Product Name	Lithium Orotate	Molecular Formula	C ₅ H ₃ LiN ₂ O ₄ ·H ₂ O
CAS No.	5266-20-6	Quantity	600 kg
Batch No.	MLP-LOE-20250402	MFG. Date	2025.04.02
Report Date	2025.04.11	Retest Date	2027.10.01

Testing Items	Specifications	Results	Methods
Identification			
¹ HNMR	¹ HNMR confirms to structure	Conforms	CPh
Active Ingredients			
Assay (based on dried)	98.0 %~ 102.0%	99.98 %	CPh
Lithium ion	3.5 %~ 4.3 %	4.25 %	USP
Physical Control			
Appearance	Fine powder	Conforms	Visual
Color	White to off-white	Conforms	Visual
State of solution	Clear and colorless	Conforms	Visual
Odor	Characteristic	Conforms	Organoleptic
Taste	Characteristic	Conforms	Organoleptic
Partical Size	60 % pass 60 mesh	Conforms	CPh
Loss on Drying	≤1.0 %	0.04 %	CPh
Chemical Control			
Heavy Metals	≤20 ppm	< 10ppm	USP
Lead (Pb)	≤0.5ppm	<0.05ppm	ICP-MS
Arsenic (As)	≤1.5ppm	<0.005ppm	ICP-MS
Cadmium (Cd)	≤0.5ppm	<0.005ppm	ICP-MS
Mercury (Hg)	≤3.0ppm	<0.003ppm	ICP-MS
Chloride (Cl)	≤0.1 %	Conforms	GB 5009.44 - 2016
Sulfate (SO ₄)	≤0.1 %	Conforms	CPh
pH	5.5 – 7.5	6.21	CPh
Microbiological Control			
Total Plate Count	≤1000cfu/g	≤1000cfu/g	ISO 4833 - 1:2013
Yeast	≤50 cfu/g	≤50 cfu/g	ISO 21527 - 2:2008
Moulds	≤50 cfu/g	≤50 cfu/g	ISO 21527 - 2:2008
E.Coli	Negative	Negative	ISO 16649 - 3:2015
Salmonella sp.	Negative	Negative	GB 4789.4 - 2016
Storage			
Storage	Store in a well-closed container away from moisture and direct sunlight.		
Shelf Life	2,5 years if sealed and stored properly.		

Note:

This product specification is based on the manufacturer's analysis data. It is provided for information purposes only and does not replace an independent test certificate.