



American International Chemical, Inc.

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SPECIFICATION SHEET

LITHIUM OROTATE MONOHYDRATE

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Written By	Rev. No.	Approved By
LIOGIP	2998	5266-20-6	November 20, 2006	MDS	MDS	Original	TJK

CHARACTERISTICS:	A white to off white or yellow-tinged white crystalline powder. Hardly soluble in water. Practically insoluble in 96% ethanol and ether.
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MOLECULAR FORMULA:	$C_5H_3LiN_2O_4 \cdot H_2O$
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MOLECULAR WEIGHT:	180.04
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SPECIFICATIONS:	Identification	To pass test
	Assay (by complexometric titration)	98-101%
	UV absorption maximum	Between 269 to 285 nm
	pH (1.0% solution)	Between 3.5 to 6.5
	Loss on drying	3.0% max
	Lithium content (as is)	3.74-4.01
	Microbial limits:	
	Total viable aerobic count	500 cfu/g max
	Yeast and mold	100 cfu/g max
	Salmonella	Not detectable in 1 g
	Pseudomonas aeruginosa	Not detectable in 1 g
	Staphylococcus aureus	Not detectable in 1 g

PACKAGING:	25 kg HDPE drum
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APPLICATIONS:	Nutritional food supplements
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OTHER:	Manufacturing site is cGMP (by WHO), EDQM (European Directorate for the Quality of Medicines), HACCP, ISO-9001:2000, ISO-14001
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SHELF LIFE:	Material should be re-tested against certificate of analysis two years from date of manufacture. Store in an air tight container at 25-30°C
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