



135 Newbury Street, Framingham, MA 01701

(800) 238-0001 (508) 270-1800 FAX (508) 872-1566

Website: www.aicma.com Email: info@aicma.com

Specification Sheet

LUTEIN OIL 20%

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
LU20ML	2680	127-40-2	December 14, 2011	LR/SW	No. 1	CDS

CHARACTERISTICS:	100% natural concentrate of free lutein and zeaxanthin from marigold flowers (<i>Tagetes erecta</i>). Brilliant orange-red emulsion of lutein and Zeaxanthin in vegetable oil with natural antioxidants. Standard oil is safflower, others available upon request. Appearance: Orange-red oil
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SPECIFICATIONS:	Lutein	20% min
	Zeaxanthin	4% min
	Physical	
	Bulk density	0.8 g/ml min
	Particle size	180 microns max
	Chemical	
	Propylene glycol	0 ppm
	ETQ	0 ppm
	Heavy metals	10 ppm max
	Lead	5 ppm max
	Arsenic	3 ppm max
	Cadmium	1.5 ppm max
	Microbiological	
	Total plate count	1,000 cfu/g max
	Coliforms	10 cfu/g max
	Escherichia coli	Absent/10 g
	Salmonella	Absent/25 g
	Yeast and mold	50 cfu/g max
Staphylococcus aureus	Absent/10 g	

PACKAGING:	25 kg and 5 kg plastic lined, heat sealed bags
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APPLICATIONS:	Nutritional supplements (liquid preparations, gel capsules) beverages, cosmetics.
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SHELF LIFE AND STORAGE INSTRUCTIONS:	Product expiration date is one year from date of issuance of the CoA. Material is sensitive to oxygen, heat, light and moisture. Store in original un-opened container at or below 21 °C.
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OTHER:	GMP, HACCP, ISO 9001:200, ISO 22000:2005, Kosher, GMO free, Allergen free, Non-irradiated and not chemically treated for sanitation.
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