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DATA SHEET	Version : 08	Date: December 16th , 2009
Product: **Lyc-O-Lutein 5% VBAF**	Catalogue no: 49301, 49302, 49304	

Description **Lyc-O-Lutein 5% VBAF** is a microencapsulated tablet grade free flowing powder of natural Lutein (free) extracted from Marigold flowers. All ingredients are GMO free. This product does not contain gelatin. It is suitable for vegetarians.

Appearance: Orange-red free flowing powder beadlets

Odor: Characteristic

Application Tablets and hard shell capsules. It may also be used in functional food and nutraceutical products.

Certifications: Produced according to ISO 9001:2000 standard and Israeli GMP regulations.

Regulation: All ingredients are food-grade materials approved by USA FDA, European (as 160-b)and Israeli Authorities. All ingredients are GMO free. This product does not contain animal based materials and is suitable for vegetarians.

Kosher: Lyc-O-Lutein 5% VBAF has been certified Kosher by the Orthodox Union

Halal: Lyc-O-Lutein 5% VBAF has been certified Halal.

Stability and Storage Upon storage in a dry place at room temperature in its original sealed container, this product will keep its properties for at least two years. It is recommended to store the sealed containers at 4°C in the dark for optimum stability. The opened containers should be used within a short time.

Chemical & Physical Analysis		Microbial Evaluation	
Free Lutein	5% - 6.5% (HPLC)	Total plate count	Less than 1,000/gr
Free Zeaxanthin	Min 0.2% (HPLC)	Yeasts/Molds	Less than 100/gr
Total Carotenoids	5.9% - 8% (Spectrophotometric Method)	E. Coli	Absent in 10 gr
Particle Size	min. 70% 150-425 microns (100-40 mesh)	Salmonella	Absent in 10 gr
Loss on drying	10% (max)	(According to USP Method)	
Bulk Density	0.7 g/ml		
Heavy metals	< 10 ppm (USP Method)		
• Lead	≤ 3 ppm (ICP Analysis)		
• Arsenic	≤ 2 ppm (ICP Analysis)		
• Hg	≤ 1 ppm (ICP Analysis)		
• Cadmium	≤ 1 ppm (ICP Analysis)		

Packaging: Packed in 1, 5 or 25 kg in aluminum/polyethylene laminate bags under N_2 in cardboard boxes.

Country of origin: Israel

Ingredients Lutein (E161[b]), Alginate (E401), Arabic gum (E414), Pea starch and carnosic acid.