



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME : **LUTEIN-PC40** (COSMETIC)

This product is extracted from flowers of marigold, *Tagetes erecta* Compositae, and then refined. It contains lutein esters of minimum 40.0 %.

<u>Appearance</u>	Orange yellow powder with slightly unique smell.
<u>Content of Lutein (free)</u>	Min. 20.0 % (HPLC)
<u>Content of Lutein Esters</u>	Min. 40.0 % [Content of Lutein (Free)×2]
<u>Content of Total Carotenoid (free)</u>	Min. 21.0 % (Spectrophotometry)
<u>Content of Total Carotenoid Esters</u>	Min. 42.0 % [Content of Total Carotenoid (free)×2]
<u>Loss on Drying</u>	Max. 5.0 % (1g, 40°C Reduced Pressure, Phosphorus Pentaoxide, 4h)
<u>Purity Test</u>	
(1)Heavy Metals (as Pb)	Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)
(2)Arsenic (as As₂O₃)	Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)
<u>Standard Plate Counts</u>	Max. 1×10 ² cfu/g (Analysis for Hygienic Chemists)
<u>Moulds and Yeasts</u>	Max. 1×10 ² cfu/g (Analysis for Hygienic Chemists)
<u>Coliforms</u>	Negative (Analysis for Hygienic Chemists)

<u>Composition</u>	Ingredient	Content
	Dextrin	50.00 %
	Tagetes Erecta Flower Extract	49.87 %
	<u>Tocopherol</u>	0.13 %
	Total	100.00 %

Expiry date 2 years from date of manufacturing.

Storage Store it in a cool, dry, ventilated area. Keep it away from high temperature and sunlight, and store it in a closed container.

Established Date	August 7, 2006
Revised Date	April 2, 2012
Specification No.	B-202SJ