



## ORYZA OIL & FAT CHEMICAL CO.,LTD.

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### PRODUCT STANDARD

PRODUCT NAME : **LUTEIN-PC80** (COSMETIC)

This product is extracted from flowers of marigold, *Tagetes erecta* Compositae, and then refined. It contains lutein esters of minimum 80.0 %.

<b><u>Appearance</u></b>	Orange yellow powder with slightly characteristic odor.
<b><u>Content of Lutein (free)</u></b>	Min. 40.0 % (HPLC)
<b><u>Content of Lutein Esters</u></b>	Min. 80.0 % [Content of Lutein (Free)×2]
<b><u>Content of Total Carotenoid (free)</u></b>	Min. 42.5 % (Spectrophotometry)
<b><u>Content of Total Carotenoid Esters</u></b>	Min. 85.0 % [Content of Total Carotenoid (free)×2]
<b><u>Loss on Drying</u></b>	Max. 5.0 % (1g, 40°C Reduced Pressure, Phosphorus Pentaoxide, 4h)
<b><u>Purity Test</u></b>	
(1)Heavy Metals (as Pb)	Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)
(2)Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)
<b><u>Standard Plate Counts</u></b>	Max. 1×10 <sup>2</sup> cfu/g (Analysis for Hygienic Chemists)
<b><u>Moulds and Yeasts</u></b>	Max. 1×10 <sup>2</sup> cfu/g (Analysis for Hygienic Chemists)
<b><u>Coliforms</u></b>	Negative (Analysis for Hygienic Chemists)

<b><u>Composition</u></b>	<b><u>Ingredient</u></b>	<b><u>Content</u></b>
	Tagetes Erecta Flower Extract	99.75 %
	Tocopherol	0.25 %
	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	September 12, 2003
Revised Date	October 27, 2023
Specification No.	Z-327EN