



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME : **LUTEIN-P80** (FOOD)

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

<u>Appearance</u>	Orange yellow powder with slightly unique smell.	
<u>Content of Lutein (free)</u>	Min. 40.0 %	(HPLC)
<u>Content of Lutein Esters</u>	Min. 80.0 %	[Content of Lutein (Free)×2]
<u>Content of Total Carotenoid (free)</u>	Min. 42.5 %	(Spectrophotometry)
<u>Content of Total Carotenoid Esters</u>	Min. 85.0 %	[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	(Sodium Sulfide Colorimetric Method)
(2)Arsenic (as As₂O₃)	Max. 1 ppm	(Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)
<u>Standard Plate Counts</u>	Max. 1×10 ³ 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
	Marigold Extract	99.75 %
	Mixed Tocopherol	0.25 %
	Total	100.0 %

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	May 1, 2002
Revised Date	July 13, 2018
Specification No.	N-813EN