



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

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### PRODUCT STANDARD

PRODUCT NAME : **ORYZA TOCOTRIENOL™-90** (FOOD)

This product is mixture of tocotrienols extracted and concentrated from the rice bran and the rice germ of *Oryza sativa* Linne (*Gramineae*). It contains minimum of 60.0 % total tocotrienols (  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$  ).

**Appearance**

Red-brown colored sticky liquid with slightly unique smell.

**Certification Test**

0.01 g of this product is dissolved in 10 mL of ethanol, then 2 mL of nitric acid is added to the mixture. After incubation at 75°C for 15 minutes, the solution shows red-orange color.

**Content**

Total tocopherols and tocotrienols	Min. 90.0 % (HPLC)
Total tocotrienols	Min. 60.0 % (HPLC)
Max. 10.0 meq/kg	(Japan Oil Chemists' Society)

**Peroxide Value**

**Purity Test**

**(1)Solubility**

Dissolve 2.0 g of this product in 20 mL of ethanol, the solution should be clear.

**(2)Heavy Metals (as Pb)**

Max. 10 ppm (Sodium Sulfide Colorimetric Method)

**(3)Arsenic (as As<sub>2</sub>O<sub>3</sub>)**

Max. 1 ppm (Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)

**Standard Plate Counts**

Max. 1×10<sup>2</sup> cfu/g (Analysis for Hygienic Chemists)

**Moulds and Yeasts**

Negative (Analysis for Hygienic Chemists)

**Coliforms**

Negative (Analysis for Hygienic Chemists)

**Composition**

<u>Ingredient</u>	<u>Content</u>
Rice oil extract	100 %

**Expiry date**

2 years from date of manufacturing.

**Storage**

Store it in a cool, dry, ventilated area with desiccant.

Keep it away from high temperature and sunlight, and store it in a closed container.

Established Date	May 7, 2002
Revised Date	December 3, 2018
Specification No.	K-803EN