



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME : **ORYZA TOCOTRIENOL™** (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 16.0 % total tocotrienols (α , β , γ , δ).

Appearance

Slightly yellow or 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. 30.0 % (HPLC)
Total tocotrienols Min. 16.0 % (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 As₂O₃)

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

Standard Plate Counts

Max. 1×10^2 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	September 1, 1998
Revised Date	October 3, 2023
Specification No.	Z-303EN