



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

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### PRODUCT STANDARD

PRODUCT NAME : **ORYZA TOCOTRIENOL™-L10** (FOOD)

This product is water-soluble mixture of tocotrienols extracted and concentrated from the rice bran and the rice germ of *Oryza sativa* Linne (*Gramineae*). It contains minimum of 7.0 % total tocotrienols (  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$  ).

#### Appearance

Light brown colored sticky liquid with slightly unique smell.

#### Certification Test

0.15 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. 10.0 % (HPLC)

Total tocotrienols Min. 7.0 % (HPLC)

#### Purity Test

(1) Heavy Metals (as Pb)

Max. 10 ppm

(Sodium Sulfide Colorimetric Method)

(2) 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>3</sup> cfu/g

(Analysis for Hygienic Chemists)

#### Moulds and Yeasts

Max. 1×10<sup>2</sup> cfu/g

(Analysis for Hygienic Chemists)

#### Coliforms

Negative

(Analysis for Hygienic Chemists)

#### Composition

<u>Ingredient</u>	<u>Content</u>	(Values are just a guide)
Glycerin	44 %	
Purified water	28 %	
Glycerin ester of fatty acid	16 %	
Rice oil extract (contains tocotrienol)	12 %	
Total	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	April 1, 2008
Revised Date	October 3, 2023
Specification No.	Z-303EN