



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME : **ORYZA TOCOTRIENOL™** (COSMETIC)

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).

<u>Appearance</u>	Slightly yellow or red-brown colored sticky liquid with slightly characteristic odor.	
<u>Identification</u>	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.	
<u>Content</u>	Total tocopherols and tocotrienols	Min. 30.0 % (HPLC)
	Total tocotrienol	Min. 16.0 % (HPLC)
<u>Peroxide Value</u>	Max. 10.0 meq/kg	(Japan Oil Chemists' Society)
<u>Purity Test</u>		
<u>(1)Solubility</u>	Dissolve 2.0 g of this product in 20 mL of ethanol, the solution should be clear.	
<u>(2)Heavy Metals (as Pb)</u>	Max. 10 ppm	(The Second Method of The Japanese Standards of Quasi-Drug Ingredients)
<u>(3)Arsenic (as As₂O₃)</u>	Max. 1 ppm	(The Third Method of The Japanese Standards of Quasi-Drug Ingredients)
<u>Standard Plate Counts</u>	Max. 1×10^2 cfu/g	(Analysis for Hygienic Chemists)
<u>Moulds and Yeasts</u>	Negative	(Analysis for Hygienic Chemists)
<u>Coliforms</u>	Negative	(Analysis for Hygienic Chemists)

<u>Composition</u>	<u>Ingredient</u>	<u>Content</u>
	Oryza Sativa (Rice) Bran Oil	70 %
	Tocotrienols	16 %
	Tocopherol	14 %
	Total	100 %

<u>Expiry date</u>	2 years from date of manufacturing.
<u>Storage</u>	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	November 5, 2002
Revised Date	May 9, 2019
Specification No.	T-909EN