



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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Phone:+81-586-86-5141 Facsimile:+81-586-86-6191

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PRODUCT STANDARD

PRODUCT NAME : **ORYZA STEROL-LC** (COSMETIC)

This product is an emulsion of phytosterol extracted from rice bran and rice germ, *Oryza sativa* Linne (Gramineae). It guarantees a minimum of 3.0% sterol.

Appearance

Light yellowish liquid with slight characteristic odor.

Identification

(1) Sterol

Contrast of relative retention time by gas chromatography.

Column : 1 % SE-30 (I.D.3.2mm×2m)

Column temperature : 240°C

Injector temperature : 280°C

Detector temperature : 280°C

Detector : FID.

(2) Glycerin

Ten gram of this product is dissolved in 50 mL of ethanol, shaking in a separating funnel. Ethanol layer is collected and evaporated. Addition of 0.5 g of potassium hydrogensulfate is added and following heating results in irritating smell.

(3) Triglyceride

Peaks of standard and sample solution appears in similar retention time upon GC analysis.

(4) Lecithin

One gram of this product, 5 g of potassium sulfate, 0.5 g of copper sulfate and 20 mL of sulfuric acid are heated together in a kjeldahl flask. When the solution turns transparent blue, proceed for heating for 2 hours. After cooling, 20 mL of water is added. Yellow precipitate forms when 10 mL of ammonium molybdate solution is added to 5 mL of this solution.

Sterol

Min. 3.0 % (GC)

Purity Test

(1) Heavy Metals (as Pb)

Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)

(2) Arsenic (as As₂O₃)

Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)



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Standard Plate Counts

Max. 1×10^2 cfu/g (Analysis for Hygienic Chemists)

Moulds and Yeasts

Max. 1×10^2 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	37 %
Water	36 %
Caprylic/Capric Triglyceride	15 %
Polyglyceryl-6 Laurate	6 %
Phytosterol	3 %
Lecithin	3 %
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	September 4, 2001
Revised Date	September 16, 2020
Specification No.	R-016EN