



ORYZA OIL & FAT CHEMICAL CO.,LTD.

1 Aza Numata Kitagata Kitagata-cho Ichinomiya-city, Aichi-prefecture 493-8001 JAPAN
Phone:+81-586-86-5141 Facsimile:+81-586-86-6191
URL/http://www.oryza.co.jp/ E-mail:info@oryza.co.jp

PRODUCT STANDARD

PRODUCT NAME : ORYZA SQUALANETM (COSMETIC)

This product is produced by distillation and hydrogenation of rice bran [*Oryza sativa* Linne (Gramineae)] oil. It guarantees a minimum of 75.0% squalane.

Appearance
Identification

This product is colorless and odorless liquid oil.
Dissolve 0.4 g of this product in appropriate volume of *n*-hexane in a 100 mL volumetric flask, and add *n*-hexane to adequate volume (solution A). On the other hands, dissolve 0.4 g of “squalane “ with *n*-hexane in a 100 mL volumetric flask, and add *n*-hexane to adequate volume (solution B). Analysis performed by gas chromatography (GC) as follows. Analyze 1.0 μ L of solution A and B to confirm that the retention time of the peak in A solution shows same retention time of “squalane “ in B solution.

Detector : FID
Column : DB-17 (0.53 mm I.D. \times 30 m)
Temperature : Detector 270°C, Injection 270°C, Column 240°C

Squalane
Gravity

Min. 75.0 % (GC)
A peak is detectable (HPLC)
 $d_{20}^{20} = 0.808 \sim 0.829$

Ignition Residue
Purity Test

(1)Heavy Metals (as Pb)

Max. 0.10 % (5 g)

(2)Nickel

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

(3)Arsenic (as As₂O₃)

After 5.0 g of this product is dissolved in 5 mL of diluted hydrochloric acid for 1 minute, aqueous ammonia is added to the water layer to be alkalified. Then, 50 mg of lead dioxide, a drop of sodium hydroxide and 1 mL of dimethylglyoxime solution are added to the water layer, it does not occur red coloring.

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

Standard Plate Counts

Moulds and Yeasts

Coliforms

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



ORYZA OIL & FAT CHEMICAL CO.,LTD.

1 Aza Numata Kitagata Kitagata-cho Ichinomiya-city, Aichi-prefecture 493-8001 JAPAN

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

URL/http://www.oryza.co.jp/ E-mail:info@oryza.co.jp

Composition

<u>Ingredient</u>	<u>Content</u>
Squalane	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 27, 1999
Revised Date	September 5, 2018
Specification No.	R-805EN