



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

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### PRODUCT STANDARD

PRODUCT NAME : **YUZU SEED EXTRACT-PC** (COSMETIC)

This product is extracted with aqueous ethanol from Yuzu seed, the seeds of *Citrus junos* (Rutaceae).  
 It contains minimum 0.5 % of limonin.

**Appearance**

Slightly yellow-brown powder with slight characteristic odor.

**Content of Limonin**

Min. 0.5 % (HPLC)

**Identification**

**Nomilin**

After methanol (HPLC grade) is added to 0.1 g of this product in a 10 mL volume flask, and the flask is treated with ultrasonic wave for 1 minute. The solution is filtered through a 0.45  $\mu$  m PTFE filter after addition of methanol (HPLC grade) to an adequate volume. For preparation of standard solution, methanol (HPLC grade) is added to nomilin in 0.2 mg/mL. HPLC analysis is performed according to the conditions below for 5  $\mu$  L of test solution and standard solution. The peak of nomilin is found in the HPLC chromatogram of test solution.

**Loss on Drying**

Max. 10.0 % (1g, 105 °C, 2 hr)

**Purity Test**

**(1)Heavy Metals (as Pb)**

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

**(2)Arsenic (as As<sub>2</sub>O<sub>3</sub>)**

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

**Standard Plate Counts**

Max. 1×10<sup>2</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)
Dextrin	60 %
Citrus Junos Seed Extract	40 %
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	December 10, 2004
Revised Date	June 29, 2020
Specification No.	G-029EN