



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME: **YUZU SEED EXTRACT-P** (FOOD)

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

Appearance

Slightly yellow-brown powder with slightly unique smell.

Content of Limonin

Min. 0.5 % (HPLC)

Certification Test of 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 μ m PTFE filter after addition of methanol (HPLC grade) to adequate volume. For preparation of standard solution, methanol (HPLC grade) is added to nomilin in 0.2 mg/mL (standard solution). HPLC analysis is performed according to the following conditions for 5 μ 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 % (Analysis for Hygienic Chemists,
1g, 105 °C, 2 hr)

Purity Test

(1)Heavy Metals (as Pb)

Max. 10 ppm (Sodium Sulfide Colorimetric Method)

(2)Arsenic (as As₂O₃)

Max. 1 ppm (Standard Methods of Analysis in Food Safety Regulation, The Third Method, Apparatus B)

Standard Plate Counts

Max. 1×10³ cfu/g (Analysis for Hygienic Chemists)

Moulds and Yeasts

Max. 1×10² cfu/g (Analysis for Hygienic Chemists)

Coliforms

Negative (Analysis for Hygienic Chemists)

Composition

Ingredient **Content** (Values are just a guide)

Maltodextrin 60 %

Yuzu 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	November 29, 2004
Revised Date	June 26, 2020
Specification No.	G-029EN