



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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

TEL:+81-586-86-5141 FAX:+81-586-86-6191

URL: <https://www.oryza.co.jp/> E-mail: info@oryza.co.jp

PRODUCT STANDARD

PRODUCT NAME : **GAMMA ORYZANOL** (FOOD)

This product is extracted and refined from the rice bran of *Oryza sativa* Linne (Gramineae).
Dried product contains minimum of 98.0% γ -oryzanol (C₄₀H₅₈O₄).

Appearance

White or slightly yellow colored crystal or crystalline powder. It has no smell or slightly unique smell.

Certification Test

(1) To 0.01 g of this product, add 10 mL of Potassium hydroxide-ethanol. After heating, a yellow color develops.

(2) Dissolve 0.01 g of this product with 2 mL of acetone, add 0.1 mL of Ferric chloride/ethanol solution(1 → 50). Green to yellow-green color develops.

(3) The absorbance at the maximum wave length of n-Heptane solution (1 → 100,000) is at 231 nm, 291 nm, and 315 nm.

Content of γ -Oryzanol

Min. 98.0 % (UV)

Loss on Drying

Max. 0.5 % (Analysis for HygienicChemists, 1g, 105 °C, 1 hr)

Ignition Residue

Max. 0.5 % (The Japanese Standards for Food Additives)

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. 1×10² 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

<u>Ingredient</u>	<u>Content</u>
γ -oryzanol	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	April 1, 1997
Revised Date	August 30, 2023
Specification No.	Q-330EN