



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

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**PRODUCT STANDARD**

PRODUCT NAME : **FERULIC ACID** (FOOD)

This product is extracted and refined from the rice bran of *Oryza sativa* Linne (Gramineae).  
Dried product contains minimum of 98.0 % ferulic acid (C<sub>10</sub>H<sub>10</sub>O<sub>4</sub>).

**Appearance**

White or slight yellow-brown crystalline powder.  
It has no smell or slightly unique smell.

**Certification Test**

- (1) This product has maximum values of absorption spectrum at 236 nm. and 322 nm. wavelength in the measurement of extinction spectra of ethanol solution. (1-100000)
- (2) When 0.01 g of this product is dissolved to 10 ml of potassium hydroxide ethanolic solution, there occurs yellow coloring.
- (3) 0.01 g of this product is dissolved to 2 ml of acetone and 0.1 ml solution of ferric chloride ethanol (1-50), there occurs red brown coloring.

**Content of Ferulic Acid**

Min. 98.0 % (HPLC)

**Loss on Drying**

Max. 0.5 % (Analysis for Hygienic Chemists,  
1g, 105 °C, 3 hr)

**Ignition Residue**

Max. 0.1 % (The Japanese Standards for Food Additives)

**Melting Point**

171~174 °C (The Japanese Standards for Food Additives)

**Purity Test**

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

Max. 10 ppm (Sodium Sulfide Colorimetric Method)

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

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

**Standard Plate Counts**

Max. 1×10<sup>3</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>
Ferulic Acid	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	July 11, 2011
Specification No.	N-111TK