



ORYZA OIL & FAT CHEMICAL CO.,LTD.

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PRODUCT STANDARD

PRODUCT NAME: **ORYZA GAMMAX[®]** (FOOD)
(Substance name: γ -Oryzanol)

This product is extracted and refined from the rice bran of *Oryza sativa* Linne (Gramineae).
Dried product contains minimum of 85.0% γ -Oryzanol.

<u>Appearance</u>	White or light yellowish crystalline powder.	(Visual inspection)
<u>Odor</u>	No or slight characteristic odor.	(Physical inspection)
<u>γ-Oryzanol</u>	$\geq 85.0\%$	(HPLC)
<u>Melting point</u>	150 - 185 °C	(The Japanese Standards for Food Additives)
<u>Loss on Drying</u>	$\leq 0.5\%$	(105°C for 2 hr)
<u>Residue on Ignition</u>	$\leq 0.5\%$	(550°C for 3 hr)
<u>Purity Test</u>		
<u>(1) Arsenic</u>	≤ 1 ppm	(Atomic Absorption Spectrophotometry)
<u>(2) Lead</u>	≤ 1 ppm	(Atomic Absorption Spectrophotometry)
<u>(3) Mercury</u>	≤ 0.1 ppm	(Cold Vapor Atomic Absorption Spectrophotometry)
<u>(4) Cadmium</u>	≤ 0.1 ppm	(Atomic Absorption Spectrophotometry)
<u>(5) Tungsten</u>	≤ 50 ppm	(ICP-OES (US EPA 3056))
<u>Standard Plate Counts</u>	≤ 100 cfu/g	(Standard Plate Count Agar)
<u>Moulds and Yeasts</u>	≤ 100 cfu/g	(Potato Dextrose Agar)
<u>Coliforms</u>	N.D./ 10g	(Brilliant Green Lactate Bile Medium)
<u>Guarantee of quality period</u>	Two years after production.	
<u>Storage</u>	Sealed and store in a cool, dry, dark place.	

Established Date	April 1, 1997
Revised Date	February 23, 2018
Specification No.	M-823TO