



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

1 Aza Numata Kitagata Kitagata-cho Ichinomiya-city, Aichi-prefecture 493-8001 JAPAN  
Phone:+81-586-86-5141 Facsimile:+81-586-86-6191  
URL/http://www.oryza.co.jp/ E-mail:info@oryza.co.jp

### PRODUCT STANDARD

PRODUCT NAME: **ORYZA GAMMAX<sup>®</sup>** (FOOD)  
(Substance name:  $\gamma$ -Oryzanol)

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

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

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