

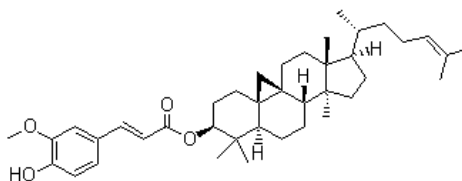
SPECIFICATION SHEET

Oroyal™ Gamma Oryzanol 99%

CAS: 11042-64-1

Chemical Formula: C₄₀H₅₈O₄

Molecular Weight: 602.89



GENERAL CHARACTERISTICS

| | |
|-------------|--|
| Description | Gamma oryzanol is a mixture of substances derived from rice bran oil, including ferulic acid esters of sterols and triterpene alcohols. Cycloartenylferulate, 24-methylenecycloartanyl ferulate and campesterylferulate are the three major components and amount for 80 percent of gamma-oryzanol. Gamma Oryzanol is an antioxidant compound and is associated with cholesterol regulation, decreasing platelet aggregation, treating hyperlipidemia, treating disorders of menopause and increasing the muscle mass. |
| Appearance | Crystalline Powder |
| Color | White or almost white |
| Odor | Odorless |

ANALYTICAL CHARACTERISTICS

| | |
|---------------------|-------------|
| Assay | 99.0-102.0% |
| Loss on Drying | Max 0.8% |
| Residue on ignition | Max 0.2% |
| Heavy metals | Max 10ppm |
| Arsenic | Max 1ppm |
| Lead | Max 3ppm |
| Cadmium | Max 1ppm |
| Mercury | Max 0.1ppm |

MICROBIAL CHARACTERISTICS



| | |
|-------------------|----------------|
| Total Plate Count | Max 1,000cfu/g |
| Mold | Max 100cfu/g |
| <i>E. Coli</i> | Negative |
| <i>Salmonella</i> | Negative |

INGREDIENTS

Pure Gamma Oryzanol

LABELING

In the United States and the European Union: Oroyal™ Gamma Oryzanol 99%

USES RECOMMENDATIONS

- Stabilisation of fats, frying oils and fried products
- Stabilisation and development of other food products,
- Functional food
- Athletic uses
- As sunscreen agent in cosmetic
- Pharmaceutical uses

HANDING RECOMMENDATIONS

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep container tightly closed. Keep container in a cool, well-ventilated area.

PACKING&SHELF LIFE

| | |
|------------|--|
| Package | 20kg/drum |
| Shelf life | 3 years if sealed and stored properly. |