



Rice Bran CO2 Total Extract  
INCI: Oryza Sativa (Rice Bran) Extract  
Product ID: CO2RICEBRANTR996

### Specifications

**Analytical Details**

**Appearance:**  
**Odor:**  
**Moisture:**  
**Acid Value:**  
**Peroxide Value:**  
**Free Fatty Acid (as Oleic):**  
**Color:**  
**Relative Density:**  
**Flash Point:**  
**Refractive Index (20 °C):**  
**Saponification Value:**  
**Unsaponifiable Matter:**  
**Iodine Value:**  
**γ Oryzanol:**

**Methods**

Visual  
Organoleptic  
  
TS EN ISO660  
TS EN ISO3960; TKG2014-53  
TGK2014-53

**Specifications**

Clear, Light Yellow Liquid  
Characteristic  
0 - 2%  
10 - 24 mg/kg  
≤ 6.0 meq O<sub>2</sub>/kg  
5 - 12%  
Not Specified  
0.900 - 0.930 g/cm<sup>3</sup>  
< 250 °C  
1.464 - 1.468  
179 - 195 mg KOH/g  
3 - 7%  
92 - 115%  
1 - 2 mg / 100mg

**Fatty Acid Profile**

**C16:0 Palmitic:** 10 - 20%  
**C18:0 Stearic:** 1 - 3%  
**C18:1 Oleic:** 35 - 45%  
**C18:2 Linoleic:** 30 - 40%  
**C18:3 Linolenic:** 0 - 2%

**Phytosterol Composition**

**Campesterol:** 17.55 - 20.42%  
**Stigmasterol:** 10.45 - 13.85%  
**Δ7-Campesterol:** 0.25 - 0.95%  
**β-Sitosterol:** 50.22 - 55.85%  
**Sitostanol:** 5.77 - 9.29%  
**Δ5-Avenasterol:** 0.85 - 2.45%  
**Δ7-Avenasterol:** 2.75 - 4.25%  
**Total Phytosterol:** 1300 - 1700 mg/kg

## NATURAL SOURCING®

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**Tocol Composition**

<b>Δ-Tocopherol:</b>	0.12 - 0.51 mg/100g
<b>Δ-Tocotrienol:</b>	1.05 - 1.92 mg/100g
<b>γ-Tocotrienol:</b>	0.55 - 0.98 mg/100g

**Microbiological**

<b>Total Bacteria:</b>	< 100 CFU/g
<b>Yeast &amp; Mold:</b>	< 1,000 CFU/g
<b>E. Coli:</b>	< 10 CFU/g
<b>Coliform:</b>	< 100 CFU/g
<b>Salmonella:</b>	Negative
<b>S. Aureus:</b>	Negative
<b>C. Albicans:</b>	Negative

**Heavy Metals**

<b>Cadmium:</b>	< 0.2 mg/kg
<b>Mercury:</b>	< 0.2 mg/kg
<b>Lead:</b>	< 0.2 mg/kg
<b>Arsenic:</b>	< 0.2 mg/kg

**Persistent Organic Pollutants**

<b>PAH:</b>	Negative
<b>Benzo(a)pyrene:</b>	< 2.0 µg/kg
<b>Benzo(a)fluoranthene:</b>	< 10 µg/kg
<b>Benzo(a)anthracene:</b>	< 10 µg/kg

**Shelf Life:** 2 Years

**Storage:** Store in a cool, dry location in tightly closed original packaging. Protect from sunlight and heat.

**Date:** 05/22/2020

Disclaimer: All information, appearing herein on our products is based upon data that are believed to be reliable. However, it is the user's responsibility to determine the suitability of the product before use. Since the actual use of the product is beyond our control, no guarantee, express or implied, is made by Natural Sourcing of the product nor does Natural Sourcing assume any liability arising out of use, by others, of the product referred to herein.

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