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

Specifications

<table>
<thead>
<tr>
<th>Analytical Details</th>
<th>Methods</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Visual</td>
<td>Clear, Light Yellow Liquid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Organoletic</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Moisture:</td>
<td>TS EN ISO660</td>
<td>0 - 2%</td>
</tr>
<tr>
<td>Acid Value:</td>
<td>TS EN ISO3960; TGK2014-53</td>
<td>10 - 24 mg/kg</td>
</tr>
<tr>
<td>Peroxide Value:</td>
<td>≤ 6.0 meq O₂/kg</td>
<td></td>
</tr>
<tr>
<td>Free Fatty Acid (as Oleic):</td>
<td>TGK2014-53</td>
<td>5 - 12%</td>
</tr>
<tr>
<td>Color:</td>
<td>Not Specified</td>
<td>92 - 115%</td>
</tr>
<tr>
<td>Relative Density:</td>
<td>0.900 - 0.930 g/cm³</td>
<td>1 - 2 mg / 100mg</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&lt; 250 °C</td>
<td></td>
</tr>
<tr>
<td>Refractive Index (20 °C):</td>
<td>1.464 - 1.468</td>
<td></td>
</tr>
<tr>
<td>Saponification Value:</td>
<td>179 - 195 mg KOH/g</td>
<td></td>
</tr>
<tr>
<td>Unsaponifiable Matter:</td>
<td>3 - 7%</td>
<td></td>
</tr>
<tr>
<td>Iodine Value:</td>
<td>92 - 115%</td>
<td></td>
</tr>
<tr>
<td>γ Oryzanol:</td>
<td>1 - 2 mg / 100mg</td>
<td></td>
</tr>
</tbody>
</table>

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
**Tocol Composition**

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

**Microbiological**

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

**Heavy Metals**

- Cadmium: < 0.2 mg/kg
- Mercury: < 0.2 mg/kg
- Lead: < 0.2 mg/kg
- Arsenic: < 0.2 mg/kg

**Persistent Organic Pollutants**

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