



Wheatgerm CO2 Total Extract
 INCI: Triticum Aestivum (Wheat) Germ Oil
 Product ID: CO2WHEATGMTR996

Specifications

Analytical Details

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

Methods

Visual
 Organoleptic

 TS EN ISO660
 TS EN ISO3960; TGK2014-53
 TGK2014-53

Specifications

Clear, Golden Orange Liquid
 Characteristic
 0 - 2%
 2 - 6 mg/kg
 2 - 5 meq O₂/kg
 1 - 3%
 0.900 - 0.930 g/cm³
 133 - 138 °C
 1.472 - 1.478
 180 - 190 mg KOH/g
 3 - 7%
 120 - 130%

Fatty Acid Profile

C16:0 Palmitic: 16 - 20%
C18:1 Oleic: 14 - 18%
C18:2 Linoleic: 49 - 57%
C18:3 Linolenic: 6 - 12%
C20:1 Eicosenoic: 1 - 3%

Phytosterol Composition

Campesterol: 24.0 - 26.0%
Stigmasterol: 0.35 - 0.68%
Δ7-Campesterol: 0.51 - 2.85%
β-Sitosterol: 60.82 - 66.29%
Sitostanol: 0.75 - 1.85%
Δ5-Avenasterol: 3.92 - 5.41%
Δ7-Stigmastanol: 0.78 - 1.11%
Δ7-Avenasterol: 1.55 - 1.94%
Total Phytosterol: 27,000 - 32,000 mg/kg

**Tocol Composition**

α-Tocopherol:	186.11 - 195.48 mg/100g
β-Tocopherol:	95.51 - 100.14 mg/100g
β-Tocotrienol:	11.55 - 12.62 mg/100g

Microbiological

Total Bacteria:	< 100 CFU/g
Yeast & Mold:	< 1,000 CFU/g
E. Coli:	≤ 10 CFU/g
Coliform:	Negative
Salmonella:	≤ 100 CFU/g
S. Aureus:	Negative
B. Cerasus:	Negative
L. Monocytogenes:	Negative
V. Cholerae:	Negative

Heavy Metals

Cadmium:	≤ 0.2 mg/kg
Mercury:	≤ 0.2 mg/kg
Lead:	≤ 0.2 mg/kg
Arsenic:	≤ 0.2 mg/kg

Shelf Life: 2 Years

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

Note: All pesticide residues are below the MRLs for pesticides for the cultivation of wheat germ.

Date: 07/01/2020

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NATURAL SOURCING®

Natural Sourcing, LLC • 341 Christian Street, Oxford, CT 06478

Phone: (203) 702-2500 • Toll Free: (800) 340-0080 • Fax: (203) 702-2501 • info@naturalsourcing.com
www.naturalsourcing.com