



CRAN ESSENTIALS™ CSO

Cranberry Seed Oil

Cran Essentials™ CSO Cranberry Seed Oil is produced by a patented cold-press extrusion process from the seeds of the American Cranberry (*Vaccinium Macrocarpon* Ait.) without oxygen, enzymes or solvents at temperatures not exceeding 100° F. Exceptionally stable, this highly unsaturated triglyceride oil possesses naturally occurring fatty acid, antioxidant and phytochemical profiles that redefine performance standards for emollient oils. Naturally balanced with Omega-3, 6 & 9 fatty acids, tocopherols, tocotrienols, phosphatidylcholine and beta-sitosterol, the oil provides advanced functionality and marketability for both topical and ingested personal care products.

Identification:

Trade Name: American Cranberry Seed Oil
 INCI Name: Vaccinium Macrocarpon (Cranberry) Seed Oil
 CAS #: 381718-27-0

Characteristics:

Appearance: Greenish-gold oil
 Odor: Characteristic of vegetable oil
 pH as supplied: 4.8
 Specific Gravity: 0.923
 Shelf Life: 24 months from date of manufacture

Typical Analysis:

Iodine Value: 150.1
 Peroxide Value: 12 meq/kg
 Unsaponifiables: 1.18%
 Free Fatty Acids: 0.55%
 Saturated Fat: 6.86%
 Monounsaturated Fat: 23.51%
 Oleic Acid (18:1): 23.12%
 Polyunsaturated Fat: 69.5%
 Linoleic Acid (18:2): 35.13%
 Linolenic Acid (18:3): 34.26%
 Phosphatidylinositol: 9.9mg/kg
 Phosphatidylcholine: 202.0mg/kg
 Stigmasterol: 68mg/kg
 Campesterol: 66mg/kg
 Beta-Sitosterol: 1319mg/kg
 Alpha Tocopherol: 341mg/kg
 Gamma Tocopherol: 110mg/kg
 Gamma Tocotrienol: 1700mg/kg
 Vitamin A: 390IU/kg



Microbial Limits:

Standard Plate Count*: < 250 cfu/gm
 Yeast & Mold*: < 250 cfu/gm
 Pathogens*: 0
 Peroxide Value*: < 12 meq/l

* Certificate of Analysis Testing

Distributed By:

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