



## Amaranth Seed Oil, CO2

INCI: Amaranth (Amaranthus hypochondriacus) Seed Supercritical CO2 Extract

### Specifications

<b>Appearance:</b>	Golden oily liquid, pourable at room temperature
<b>Odor:</b>	Characteristic, mild nutty
<b>Solubility:</b>	Insoluble in water. Miscible with oils
<b>Specific Gravity:</b>	0.850 – 0.950
<b>Moisture:</b>	< 5% (Karl Fischer)
<b>Total tocopherols:</b>	500 – 1200 µg/g (HPLC)
<b>Squalene:</b>	5 – 9% (HPLC)
<b>Fatty Acids:</b>	70 – 85% (GC)
<b>Iodine Value:</b>	100 – 140 USP <401>
<b>Saponification Value:</b>	170 – 200
<b>Unsaponifiable Matter:</b>	7 – 13%
<b>Peroxide Value:</b>	< 10 meq/g
<b>Residual Solvent:</b>	Absent
<b>Heavy Metals:</b>	< 10 ppm USP <231>
<b>Total Plate Count:</b>	< 3000 cfu/g USP <61>
<b>Yeast and Mold:</b>	< 300 cfu/g
<b>E. coli:</b>	Negative
<b>Salmonella:</b>	Negative
<b>S. aureus:</b>	Negative
<b>Pseudomonas:</b>	Negative
<b>Storage Conditions:</b>	Tightly closed containers in a cool, dry, dark location
<b>Shelf-life:</b>	24 months minimum
<b>Packaging:</b>	25 kg food-grade HDPE plastic containers

**Date:** 04/16/08

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