

WHEATGERM CO2 TOTAL EXTRACT

Suitable for beauty and personal care applications.

INCI: Triticum Aestivum (Wheat) Germ Extract

Extraction Method: CO2 Supercritical Extraction

Processing Method: Filtered

Shelf Life: 2 Years

Origin: Turkey

Background:

A member of the *Poaceae* plant family, *Triticum aestivum* is a cereal grass most popularly known as common wheat or bread wheat. An ear of wheat contains approximately 50 kernels. Each kernel is comprised of a germ, bran and endosperm. The germ, also known as wheatgerm, is responsible for providing essential nutrition to the plant during germination. Wheatgerm is abundant in vitamins, minerals and essential fatty acids.

Our premium quality Wheatgerm CO2 Total Extract is obtained by pressurized supercritical fluid extraction using carbon dioxide as the solvent. This method effectively extracts all the beneficial lipophilic constituents present in the wheatgerm. Once the extraction process is complete, the CO2 dissipates back into a gaseous state, and the extract is then carefully filtered. Unlike hexane and other solvent extraction processes, no trace of solvent remains in extracts produced by CO2 supercritical extraction methods.

Although solvent and cold pressed wheatgerm oils have been valued for their impressive composition of essential fatty acids and tocopherols, such oils typically are harder to formulate with due to their shorter shelf life. Wheatgerm CO2 Total Extract is much more shelf stable and is superior to hexane extracted and even cold pressed Wheatgerm Oil because these methods of production typically require refinement for lipid stability. The CO2 supercritical extraction process is conducted at low temperatures and typically allows for more complete extraction of the beneficial plant components without the need for hexane or other solvents that can potentially leave trace residue in the resulting oil.

Recommended Usage: 1-100%

Standard Packaging: Available in aluminum canisters.



Properties:

- Outstanding Source of Linoleic Acid (Omega-6 EFA)
- Rich Source of Phytosterols (28,000 mg/kg), Tocopherols (2,880 mg/kg) and Tocotrienol (120 mg/kg)
- Gluten Free
- Stable Shelf Life
- Medium Viscosity
- Rapid Absorption
- Fluid Consistency at Room Temperature
- Smooth, Desirable Texture
- Mild, Sweet, Pleasant Aroma
- Clear, Golden Orange Hue
- See Spec Sheet for Composition Data

Uses:

Wheatgerm CO2 Total Extract possesses a remarkable nutrient profile that includes over 50% linoleic acid (an omega-6 essential fatty acid) plus an impressive composition of tocopherols, tocotrienols and phytosterols. It absorbs well and leaves the skin feeling hydrated without feeling greasy. It helps to soothe and maintain healthy, nourished skin. Wheatgerm CO2 Total Extract is especially beneficial when incorporated into formulations intended to support maturing, dry, flaky, itchy and damaged skin.

Wheatgerm CO2 Total Extract is Well Suited for the Following Personal Care Applications:

- Skin Care
- Lip Care
- Hair Care
- Cosmetics
- Aromatherapy

For more information on Praan Naturals premium quality Wheatgerm CO2 Total Extract and other certified organic and conventional CO2 Supercritical Extracts, visit PRAANnaturals.com or call our Customer Care department at (800) 340-0080 or (203) 702-2500.

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