

## RICE BRAN CO2 TOTAL EXTRACT

*Suitable for beauty and personal care applications.*

**INCI:** Oryza Sativa (Rice) Bran Extract

**Extraction Method:** CO2 Supercritical Extraction

**Processing Method:** Filtered

**Shelf Life:** 2 Years

**Origin:** Turkey

### Background:

Rice, *Oryza sativa*, is a cereal grass that belongs to the Poaceae plant family and is one of the oldest cultivated crops in history. It contains an outer layer of bran that is rich in dietary fiber, essential fatty acids, phytosterols, tocopherols and tocotrienols. Brown rice retains the highly nutritious bran and germ. To produce white rice, the bran and germ are removed during the milling and refinement process.

Our premium quality Rice Bran 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 bran. 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.

Rice Bran CO2 Total Extract is much more shelf stable than hexane solvent Rice Bran Oil that requires refinement to achieve a stable shelf life. 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.

Rice Bran CO2 Total Extract possesses an impressive nutrient profile that includes approximately 40% linoleic acid (an omega-6 essential fatty acid), 40% oleic acid plus tocopherols, tocotrienols and phytosterols.

**Recommended Usage:** 1-100%

**Standard Packaging:** Available in aluminum canisters.



### Properties:

- Excellent Source of Linoleic Acid (Omega-6 EFA)
- Good Source of Phytosterols (1500 mg/kg), Tocopherol (3.6 mg/kg) and Tocotrienols (25 mg/kg)
- Gluten Free
- Stable Shelf Life
- Medium Viscosity
- Rapid Absorption
- Fluid Consistency at Room Temperature
- Smooth, Desirable Texture
- Mild, Sweet, Grain-Like Aroma
- Light Yellow Hue
- See Spec Sheet for Composition Data

### Uses:

Rice Bran CO2 Total Extract is a versatile, penetrating, soothing emollient lipid that is well suited for all skin types. It leaves the skin feeling healthy and hydrated. It is rich in linoleic acid, an Omega-6 essential fatty acid, making it especially helpful in soothing dry, itchy skin and supporting a wide range of skin concerns. Abundant in phytosterols, tocopherols and tocotrienols (components of Vitamin E), Rice Bran CO2 Total Extract is an excellent choice for inclusion in products intended to support a healthy, youthful appearance. In hair care applications, Rice Bran CO2 Total Extract nourishes and conditions the scalp and helps restore the health of dry, damaged hair.

### Rice Bran 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 Rice Bran CO2 Total Extract and other certified organic and conventional CO2 Supercritical Extracts, visit [PRAANnaturals.com](http://PRAANnaturals.com) or call our Customer Care department at (800) 340-0080 or (203) 702-2500.

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