



Northstar Lipids

NEW

Citrus Aurantifolia Seed Oil

Lime Seed Oil

A Novel Fruit Seed Oil with a unique Lipid Profile

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Product Origin

Citrus Aurantifolia seed oil is product by the cold physical expression of Lime fruit seed, a by-product of the fruit processing industry. The crude oil is pale green in colour and has a notable citrus odour which requires further processing to ensure suitability for nutritional and cosmetic use.

Physical Composition

Citrus Aurantifolia Seed oil is a fixed triglyceride oil, not a volatile essential oil. The refined oil is pale yellow in colour, liquid at ambient (25°C) and becomes a waxy paste when cooled to below 5°C. In this sense it is similar to Avocado oil.

Nutritional Profile

Citrus Aurantifolia seed oil is rich in Essential Fatty Acids. 70% of the lipid profile is made up of the key Ω 3,6 & 9 fatty acids the body uses for skin emollience, tissue regeneration and nutritional balance-in a healthy ratio of 1:3:2. In addition, the oil comprises around 20% palmitic acid. This is one of the reasons for the oil's waxy consistency at low temperatures but, more importantly, it is a key factor in enhancing the product's stability over other plant and fruit seed oils.

Principle Fatty Acids

C16:0 Palmitic = 20-25%, C18:1 Oleic (Ω 9) = 20-25%, C18:2 Linoleic (Ω 6) = 30-40% ,
C18:3 alpha Linolenic (Ω 3) 10-15%.

Functionality & Applications

With such a broad fatty acid profile, Lime seed oil combines the functions of a basic lipid emollient with a more sophisticated skin conditioner. The high content of Ω 3&6 fatty acids support improved tissue regeneration and have been shown to be particularly effective on dry and mildly inflamed skin conditions. Lime seed oil has a medium skin feel and is especially suited to hand, face & body creams and butters where deep and prolonged moisturising effects are needed.

Formulation suggestions are available upon request

