



Technical Data Sheet

Tomorrow's Vision... Today!®

ACB Quinoa Extract

Code Number:	20363
INCI Nomenclature:	Lactobacillus/Quinoa Ferment Extract Filtrate
INCI Status:	Approved
Suggested Use Levels:	1.0 - 10.0%
Suggested Applications:	Hydration, Softening

Quinoa (*Chenopodium quinoa*) has been cultivated in the Andes Mountains of South America for over 5,000 years. The Incas referred to it as the "Mother Grain" and considered it to be a sacred plant, due to its high nutritional value and ability to flourish at high altitudes in cold, dry climates.

The Quinoa plant is a perennial, which can grow as tall as twelve feet high. The leaves of the plant are dull and triangular, while the seeds are enclosed in a hard, shiny husk. The seeds of the Quinoa plant are typically a pale yellow color, but the color can vary from shades of orange, pink, red, purple, and black.

Quinoa is commonly considered to be the single species within the Chenopodiaceae family, and is a unique plant due to its high nutritional value. In comparison to other grains, Quinoa is exceptionally high in proteins resulting in a good balance of essential amino acids. Quinoa is generally used as a cereal crop, but since it does not fall within the Poaceae family, like corn and wheat, it has been classified as a pseudo cereal or super cereal. It typically has twice the amount of proteins than other cereals such as, barley, corn, and rice.



ACB Quinoa Extract has been developed through the fermentation of the seeds of the Quinoa plant. The Quinoa seeds are first washed to remove the saponins, which exist on the outside of the seeds and serve as a natural occurring pesticide. By fermenting the Quinoa seeds with the bacterium *Lactobacillus lactis* we are able to isolate and concentrate the naturally occurring proteins of the seed and thus standardize the amino acid content.

The high protein content found in **ACB Quinoa Extract**, provides exceptional skin hydration, skin softening and emollient properties. Quinoa is known to provide strong anti-irritant, anti-oxidant, and repairing properties. The high amino acid content will help to restore hydration to the epidermis or the cuticle of the hair. **ACB Quinoa Extract** may be used in formulations for all skin and hair types, but is particularly suitable for skin or hair that is excessively dry.

Standardized Amino Acid Content in ACB Quinoa Extract

Arginine	0.60-0.80%
Lysine	0.30-0.50%
Glycine	0.25-0.45%
Glutamic Acid	0.90-1.10%

Based on 7% protein content



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