
State of the Art Ingredients • Fast Friendly Service

Quinoa Protein

DEFINITION

Proteins are the building blocks of all cells and are used in both hair care, for it's reparative properties, and in skin care, for it's hydrating properties.

FULL INCI

Hydrolyzed Quinoa

DESCRIPTION

Pronounced "Keenwa", Quinoa protein is hydrolyzed from the Quinoa grain, through an enzymatic process.

Quinoa Protein offers a, unique, combination of molecular weight amino acids offering penetration for enhanced hair and skin nourishment, along with film forming activity for greater repair, hydration and shine.

Quinoa protein is characterized as being more like an animal protein, than a vegetable protein, due to its amino acid profile. Considered to be a complete protein, it contains all 8 of the essential amino acids with the highest level of protein among grains. High levels of Cysteine, Cystine, Lysine, Methionine, Tryptophane and Tyrosine greatly enhance its ability to assist in the repair, protection and conditioning of both hair and skin.

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Quinoa Protein like all proteins offer film forming and **moisture** retention benefits but due to it's unique structure it is also proven* to offer **hair** penetration and substantivity for enhanced damage **repair** and **protection** of the cuticle

ATTRIBUTES

- repairs damage
- hair looks smoother and feel silkier
- effective barrier to protect skin and hair from the stress of environmental exposure
- binds moisture, and provides nutrients to skin and hair
- gluten free

SPECIFICATIONS

Appearance: clear amber non viscous liquid
Odor: mild, characteristic
Storage: tightly sealed, protected from freezing
Shelf Life: 1 year when properly stored and handled
Solubility: water soluble

USAGE

- add at cool down below 110F
 - 0.5 to 5.0% in skin care
 - 1.0 to to 10.0% in hair care

Quinoa Protein

APPLICATIONS

- skin care creams, lotions
 - bath and body creams, lotions
 - hair treatment products
 - post perm / relaxer conditioners
 - de-tanglers, protein packs
 - shampoos, conditioners
 - ethnic hair care
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Substantivity and Penetration Tests

Swatches of double bleached Caucasian hair were submitted to a cycle of 5 treatments of a 1% aqueous solution of Quinoa Protein. Fluorescence microscopy was used to assess both the adsorption of Quinoa Protein on the hair's surface and its penetration into the cortex, compared to a control.

STUDY RESULTS

After just 1 treatment, the Quinoa Protein showed a 16% improvement on damage to the outside of the hair shaft, versus the control.

After 5 treatments, the solution of Quinoa Protein caused a 32% improvement on damage to the outside of the hair, and a 26% reduction of damage inside the hair cortex, compared to the control.
