

(Chenopodium quinoa
and Lupinus mutabilis)

QUINOA & LUPINUS HYDROLYZED WITH PINEAPPLE ENZYMES

✓ ORIGIN

Elaborated by **ANDES KINKUNA S.A. Ecuador.**

✓ DESCRIPTION

Yellow to beige powder, with a slight smell and characteristic flavor. It consists of small spherical particles dispersible in water. It is a powder mixture of **enzymatic hydrolyzate of Quinoa flour** and **lupinus flour with Bromelain enzyme.**

COMPONENTS

Quinoa hydrolyzate (Chenopodium quinoa)

Lupinus hydrolyzate (Lupinus mutabilis)

Sodium Carboxymethylcellulose

Colloidal Silicon Dioxide

FUNCTION

Protein input

Protein input

Thickener

Anti compactant and dispersant

PROPERTIES

The proteins transformed in hydrolysis have greater absorption so this product is a very beneficial nutritional supplement, in addition to providing vitamins, minerals, carbohydrates and fats. Both the lupinus and quinoa hydrolyzates provide vegetable proteins that are considered of high biological value, since they contain branched and essential amino acids for humans in the appropriate proportions.

The basic and essential branched amino acids (also called branched-chain amino acids in English are called Branched-Chain Amino Acids BCAA) refers to a type of amino acid that has an aliphatic compound that are non-linear (its name comes from this branched characteristic).

The benefits of BCAA or branched chain amino acids are numerous: They favor protein synthesis and prevent muscle catabolism (study, study). They help preserve glycogen, since branched amino acids themselves can easily be used as fuel (study).

Lupinus hydrolyzate also provides important minerals such as calcium, which has various functions in our body: It is part of the teeth and bones and helps keep them healthy. It is necessary for blood clotting. Participates in the transmission of nerve impulse.

Lupinus hydrolyzate also has a protein called gamma conglutin, which could reduce blood sugar, is not only an excellent option for diabetics, but also for athletes. The recommended dose of the product is 10 grams for children and 20 grams for adults

PRODUCT ADVANTAGES

Quinoa is a very healthy source of energy in general, but it is ideal if you play sports. By its starch it supplies progressive muscular energy in resistance exercises, a virtue that enhances its branched amino acids. In addition, its proteins ensure muscle repair and development in strength sports.

It is suitable for diabetics, because it has a low glycemic index thanks to its complex carbohydrates, fiber and content in isoleucine, leucine and valine, which balance blood sugar.

The constant supply of energy to the nervous system favors mental performance. Also phenylalanine, which is involved in the synthesis of neurotransmitters that promote alertness and brain function. To this are added glutamic acid, magnesium, iron and phosphorus.

The contribution of the Lupinus in proteins and unsaturated fats is superior to any other legume. In addition, it contains vitamins of group B and E, calcium, potassium, zinc, phosphorus and magnesium.

The Lupinus also helps to treat certain diseases. For example, they are used in natural treatments to lower uric acid levels, in diabetics it lowers glucose, relieves bone and joint pain, they also recommend it in cases of rheumatism, gout and arthritis. Because of its high protein content, it is ideal for regenerating muscle after exercise.

MANIPULATION AND STORAGE

- Keep in a cool and dry environment (temperature 15-30 °C, relative humidity ≤ 65%).
- Place the boxes on pallets.

TRANSPORTATION

- Transport in a clean and appropriate vehicle (closed). Keep pallet boxes isolated from the floor. It does not need refrigeration conditions during transportation. Comply with the recommended temperature and humidity conditions in storage.

USEFULL LIFETIME

730 days from the date of manufacture, meeting the recommended storage conditions.

APPLICATIONS

Ideal for adding in the food and beverage industry to transform them into functional products with a high nutritional value.

NUTRITIONAL INFORMATION PER 100G

Parameter	Unit	Outcome
Total energy	KJ / 100g	1655.39
	Kcal / 100g	395.08
Fat	%	7.16
Available carbohydrates	%	67.11
Total carbohydrates	%	67.17
Protein	%	15.55
Cholesterol	mg / 100g	<0.01
Sodium	mg / kg	2619.21
Total Sugar	%	38.50
Preservatives	mg/100g	NEGATIVE
Calcium	mg / kg	4129.92
Iron	mg / kg	34.9
Zinc	mg / kg	38.21
Manganese	mg / kg	11.7
Magnesium	mg/100g	4429.34
Phosphorus	mg / kg	110.5
Potassium	mg / kg	4200.81
Vitamin B1	mg/100g	0.38
Vitamin B2	mg/100g	0.27
Vitamin B3	mg/100g	<0.01
Vitamin C	mg/100g	9.13
Vitamin E	mg/100g	2.78

Amino acid	Unit	Outcome
Aspartic acid	gAA/100g moisted Base Sample	1.60
Glutamic acid		2.92
Serina		0.84
Histidine		0.48
Threonine		0.68
Glycine		0.62
Arginine		1.01
Alanine		0.87
Tyrosine		0.73
Valine		0.79
Methionine		0.38
Phenyl Alanine		0.64
Isoleucine		0.66
Leucine		0.98
Lysine		0.25
Total amino acids	13.45 p/p	

About us:



Certifications
BPM CODE
0001-BPM-AN-0517

MADE IN ECUADOR

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