

*Let's talk  
about  
Vitagrain,  
Brazilian  
quinoa.*



**Vitagrain**

BRAZILIAN QUINOA

# What is Quinoa?

Quinoa is healthy and high in protein. Quinoa can be found natively in all countries of the Andean region, from Colombia to northern Argentina and southern Chile, in lands with little rainfall, close to being a desert. Quinoa has been one of the main foods of the Andean peoples since the Incas 3-4,000 years ago.







# Vitagrains

*a brand with Brazilian DNA*

At the beginning of this millennium a team from EMBRAPA, The Brazilian State Agricultural Research Institute started a research project in cooperation with the University of Brasilia on the cultivation of quinoa in the Brazilian Savannah. This research gave promising results, the agronomic performance of the selected quinoa types were very good. Such remarkable results were found due to the favorable growing conditions - many hours of sunlight available in the dry winter season, when the sky is blue every day.

Our team at our farm has created the Vitagrains quinoa, turning research into large-scale agricultural production with the best-known agricultural practices. We continue to grow quinoa in the winter season - when it is not raining - with careful dosing of water from our irrigation system giving the crop the best possible growing conditions, so that a very special and healthy grain can be harvested.







# 40 years of cultivation experiences in the Brazilian Savannah

Our company, Floryl Agricola Ltda. was established in the western part of the state of Bahia in 1980. The company's activities have been, since the beginning, in agriculture and reforestation. Since 2012, we have been working with pivot irrigation with a particular focus on large-scale production of soy, corn, and beans. We have both national and international customers, including some of the world's largest agricultural companies.



## Social responsibility

We employ over 65 people in our farm operations. We focus on hiring local employees who we train to have the necessary skills. We pride ourselves on our commitment to social responsibility, sustainable product development, creating employment opportunities, and our active role in supporting the local community.



*social and environmental responsibility*



## Reforestation and Sustainability, of course!

As for reforestation, Floryl has 2,000 hectares of eucalyptus plantation.

Sustainability is at the core of our values and operations. Our sustainability policy complies with all local and national legislation, and our company was an early adopter of environmental protection policies, being the first company in the region to comply with national environmental legislation. More than 25% of the property is preserved areas with the original natural vegetation.



## Vitagrains - Quality Certification

Our process quality is continuously inspected and HACCP certified by Kiwa.



## Vitagrains – Brazilian quinoa processing with knowledge and technology

Since we started quinoa processing, we have been seeking to develop and add new technologies, and we have partners who help to continuously improve Vitagrains' processing, storage, and distribution. In 2021 we inaugurated a new processing plant on the farm that has the capacity to process 10 tons per day.

## Quality control - Our own laboratory

We have established our own quality control laboratory, under the supervision of an agronomist engineer, to ensure the quality of our products.

## Ozone Disinfections

We are the first company in Brazil to use JIMCO technology for grains. To meet the ever-increasing sanitary requirements in the food processing industry, we use the UC\_C light to eliminate microorganisms (bacteria, fungi, viruses).

# Exports Sales Worldwide

Our office in Salvador, Bahia is responsible for our exports, Logistics are prepared, our product will be transported to the port of Salvador, Bahia, the fourth largest port in Brazil in cargo handling, with regular lines to all over the world.

*Farmer-Direct  
Sourcing*

*Long-Term  
contracts*

*Multiple Formats and  
Package Options Available*





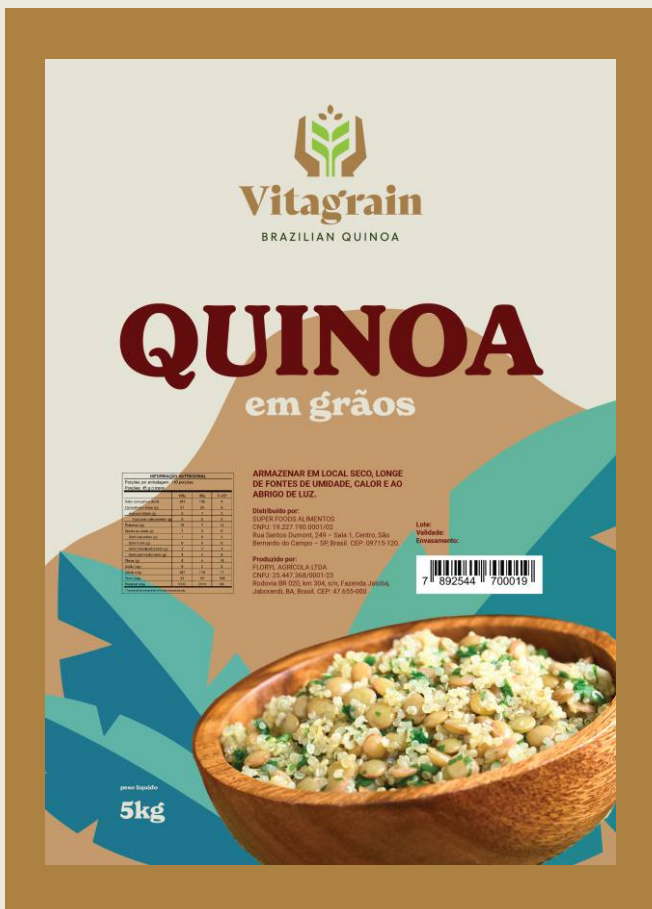


## Our domestic sales

2021

**600  
ton**

**25%**  
of the quinoa sales market  
in Brazil.





# Nutritional Benefits of Quinoa

**Quinoa is a superfood** – one of the best planted-based protein sources on the market today. It contains all the essential amino acids needed in a human diet and in the correct proportions.

## »» *Gluten-free*

Another great quality of quinoa is that it is gluten-free. In addition, it is a rich source of proteins, minerals, and fiber. It is recommended by several nutritionists to include it in our regular diet, especially for those who suffer from celiac disease.

## »» *High in proteins*

It is high in protein compared to most plant foods and contains all the essential amino acids needed to improve overall health immunity.

## »» *Very High in fiber and mineral*

It contains twice the amount of fiber compared to any other grain. Quinoa is loaded with minerals, especially magnesium, and it also contains iron, which helps with red blood cell health and improves brain activity.



# Our Differentials

## *Benefits of Vitagrains – Brazilian Quinoa*

Due to the peculiar and optimized growing conditions Vitagrains – Brazilian quinoa is a front runner among the quinoa varieties. A recent study from 2020 Food & Function (Publisher: Royal Society of Chemistry, UK) confirms as main conclusions the following specific for the Brazilian Quinoa:

- High protein content: 17% - an outstanding potential as a source of protein for the human diet, compared to other quinoa varieties. Studies of other quinoa varieties from Peru and Spain show the protein content ranged from 14.4% to 15.6%.
- Low-fat level, composed of healthy fatty acids: 86% unsaturated, 60% polyunsaturated fatty acids.
- Source of vitamin E (α and γ-tocopherols), which can promote cardiovascular health.
- Good source of phenolic compounds (flavonoids: quercetin and kaempferol). Phenolic compounds have been associated with a range of biological activities, including antioxidant, anti-inflammatory, anti-cancer and cardioprotective effects, as well as antidiabetic and anti-obesity properties.



- Source of quinic acid, which can also exert antidiabetic properties.
- Quinoa has shown antioxidant activity, suggesting the efficacy of Brazilian quinoa intake as an antioxidant strategy for the human diet.
- Brazilian quinoa has also shown activity against pathogenic bacteria and fungi, which can help in the prevention of related diseases and can contribute to promote intestinal health.



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***[www.vitagrains.com.br](http://www.vitagrains.com.br)***

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