



**Adding value
to animal nutrition**



We are ICC Animal Nutrition

Brazil's largest producer and marketer of natural and sustainable solutions based on *Saccharomyces cerevisiae* yeasts from the sugarcane ethanol fermentation process, and one of the largest manufacturers of engineered yeast products in the world.

Our pioneering spirit and perseverance in adding value to animal nutrition play an important role in more efficient and safer animal production.

For more than 30 years, we have been working in partnership with industry leading researchers to develop nutritional solutions to support better performance, health and welfare of animals.

Our research-proven solutions help our customers meet the growing global demand for a more wholesome, affordable and abundant food.



Research and Development



ICC has extensive in-house research and development capabilities to create and perfect yeast-based solutions to support the nutrition and health of livestock and companion animals.

Our team of researchers works in collaboration with major universities and research institutes around the world.

More than 320 controlled research studies, including over 40 of peer-reviewed and published research trials, have been carried out on multiple species around the world, demonstrating the benefits of sugarcane derived yeast for animal nutrition and health.

Production



In Brazil, ICC maintains an extensive and modern infrastructure that allows for a consistent and automated production process to meet the growing market demand for natural and sustainable solutions.

We continue to invest in our production capabilities to meet the global demand for our products.

Management and Quality Control



ICC maintains a strict quality control system, utilizing our state-of-the-art laboratories to meet our own stringent quality requirements and those of customers.

We adhere to GMP+ International Certification guidelines, which allow us to effectively and consistently guarantee batch-to-batch traceability throughout all stages of production and delivery to our customers.



ICC X-RAY



**LARGEST GLOBAL
PRODUCER**

of ethanol yeast



Global reference in

IMMUNONUTRITION



PIONEERING SPIRIT



31 YEARS
of history



**MARKET
LEADER**
in Brazil

PROTAGONISM



Present in over
70 COUNTRIES



44,000 m²
of warehouses



**5 DISTRIBUTION
CENTERS**

Brazil (2) • USA • Europe • China

SCIENCE



+320
scientific papers



**+40
ARTICLES**
published



Partnership with
**+20 RESEARCH
CENTERS**
and universities in various countries

TECHNOLOGY



ICC owned and operated
LABORATORIES



UPLC
State-of-the-art
equipment for
nucleotide and
nucleoside analysis



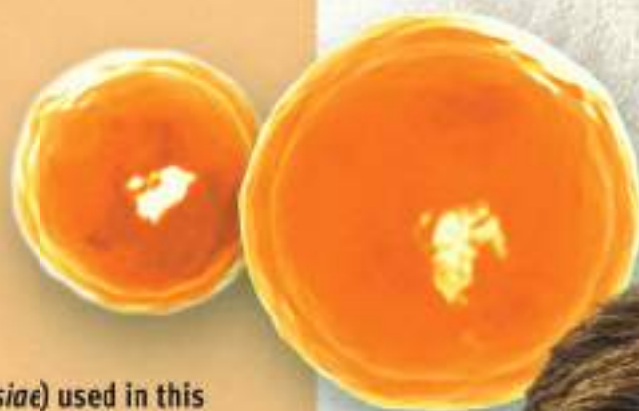
GMP+
certification

The uniqueness of Brazilian ethanol yeast

The ethanol yeasts (*Saccharomyces cerevisiae*) used in this process differ from primary fermentation yeasts in that they are mature cells and are reused in the process.

Due to the stressful conditions in the fermentation process (low pH, high temperature, and high ethanol concentration), the yeast alters the concentration of structural carbohydrates, especially the concentration of β -glucans, in order to protect itself and survive.

Yeast derived from this integrated and renewable carbon-neutral ecosystem are nutritionally and functionally unique and provide superior performance in livestock and companion animal nutrition and health.



SINGULARITIES

Mature cells
(multiple
fermentation cycles)



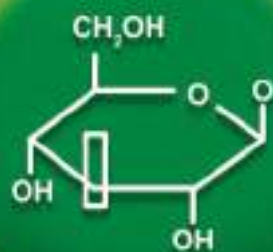
**Thicker,
indigestible
cell wall**



**Hostile
fermentation environment**
(high temperature, acidic pH,
and high alcohol content)

ICC Animal Nutrition

We are pioneers and leaders in the production of yeast additives derived from the fermentation of sugarcane ethanol in Brazil.



High β -glucan content

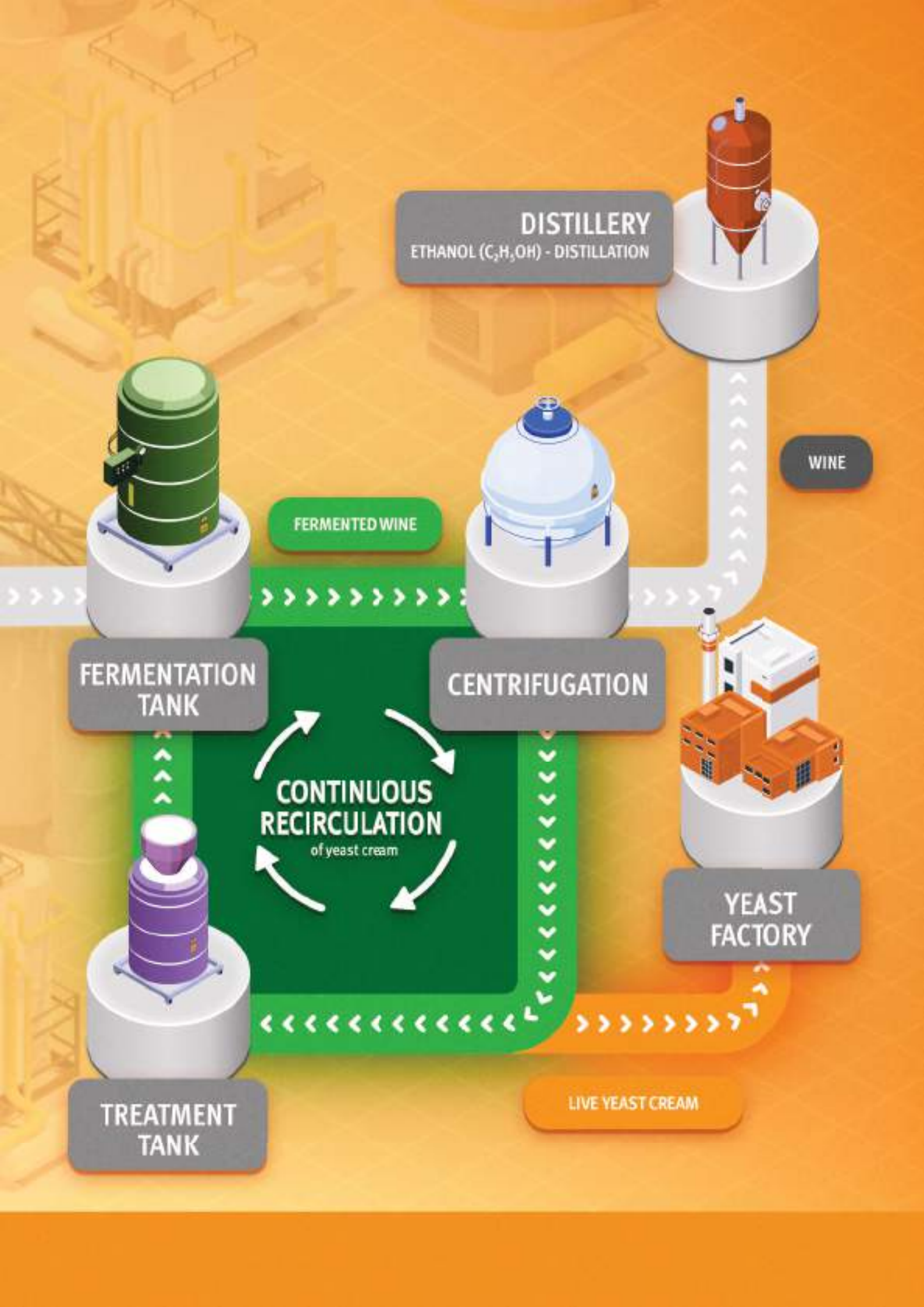
High concentration of short-chain amino acids and peptides



ZERO CO₂ emissions in the production process

Ethanol yeast production flow





IMMUNONUTRITION

Global reference



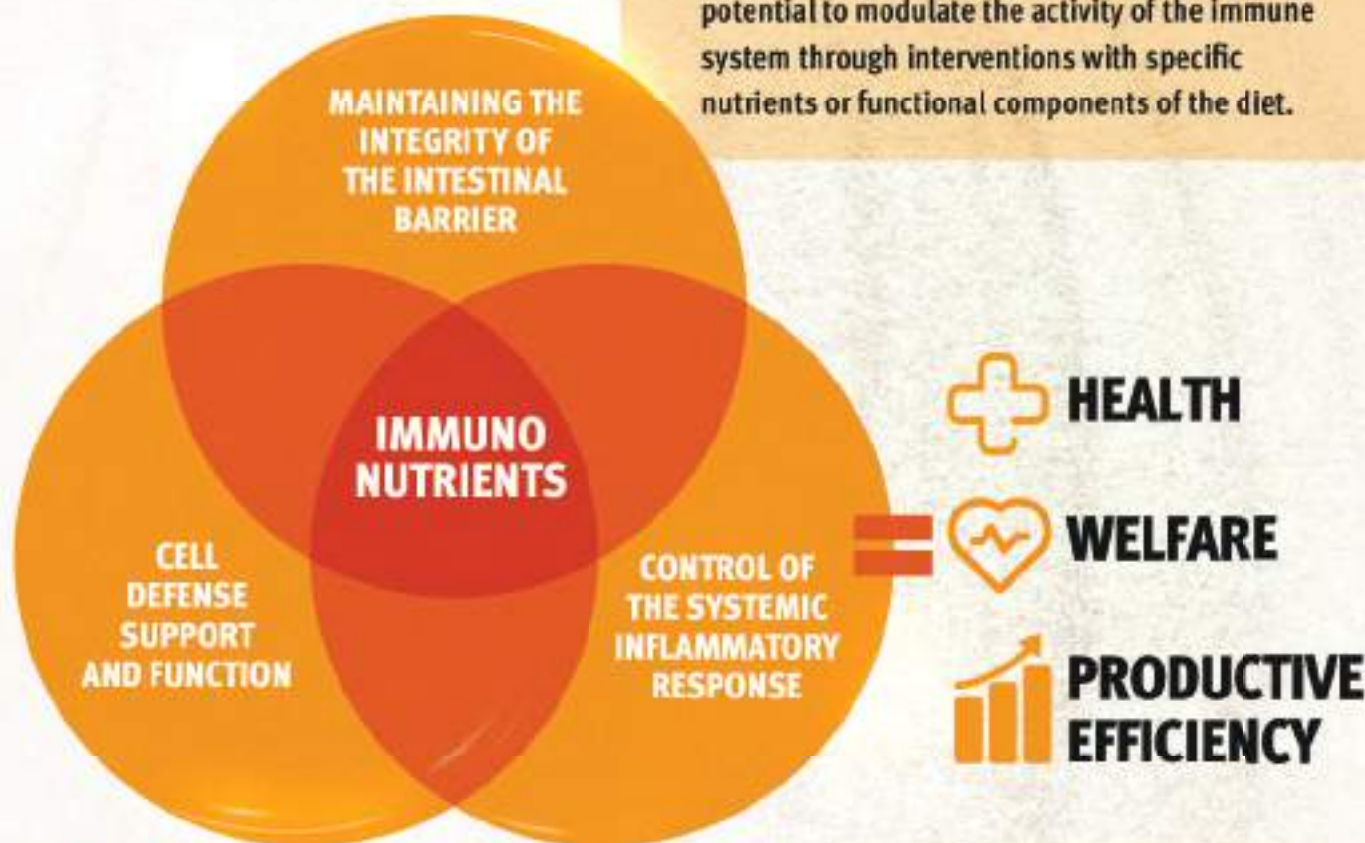
ICC are pioneers and a global reference for researchers, nutritionists, and veterinarians in the application of immunonutrition in livestock and companion animals around the world.

For over 30 years, ICC has been providing global livestock and companion animal customers with unique and efficacious yeast-based nutritional solutions.

As the world demands more natural and sustainable food production, ICC is ideally positioned to help our customers meet this challenge.

What is immunonutrition?

An interdisciplinary concept that consists of the potential to modulate the activity of the immune system through interventions with specific nutrients or functional components of the diet.





Immunonutrition around the world

ICC continues to travel the world to show the research and demonstrate the benefits of immunonutrition for livestock and companion animals.

**Pioneering spirit, leadership,
innovation, science,
technology, and sustainability
that have changed the
animal nutrition industry.**

