

I-CARE

HYDROLYSED YEAST

The natural way to improve poultry performance

- ✓ Source of Glucans, Mannans & Nucleic Acids
- ✓ Highly digestible protein source
- ✓ Natural flavour enhancer



Manufactured by



PROSOL S.P.A.

Marketed by



Uttara Dhaka 1230 Bangladesh

I-CARE is a hydrolysed yeast from *Kluyveromyces fragilis*, which has positive effects on poultry performance, thanks to high digestibility property and presence of immune modulating components such as β -glucans and Mannan oligosaccharides.

By increasing villi height, **I-CARE** improves intestinal development (Zhang et al, 2005) and digestive capacity, thus ensuring positive effects on performance are guaranteed.

Thanks to its mode of action, **I-CARE** increases feed conversion, growth performances and improves welfare right from the start of critical breeding phases.

Now-a-days *Kluyveromyces* spp. is becoming a key product for animal nutrition application.

Compared to *S. Cerevisiae*, yeast based on *Kluyveromyces* spp. has higher crude protein, amino acids content and glutamic acid. Its diet integration is very useful to increase feed palatability.

Moreover, cell walls action protects gut mucosa and improves animal performance, particularly in monogastric animals.



I-CARE is produced by **PROSOL SPA** according to standardized process and spray dried method.

I-CARE has been tested in several animal species.



I-CARE ► SOURCE OF NUTRIENTS

Hydrolysis is a gentle method to preserve all **yeast cell nutrients** and increases availability of **intracellular compounds** such as umami-taste amino acids and nucleic acid/nucleotides. As a consequence **I-CARE** improves feed palatability, performances and animals welfare.

I-CARE components are:

- ✓ 80% **YEAST EXTRACT** (Cytoplasm content)
- ✓ 20% **CELL WALL**

Proteins (%)	54.0
Total Nucleic Acid (%)	5.0
β -Glucans (%)	12.5
Mannans (%)	7.5
Lysine (%)	4.3
Threonine (%)	2.7
Glutamic Acid (%)	6.4
Protein digestibility (%)	90.0
Zinc (ppm)	149.0
NE mJ/Kg	9,5

ANIMAL PERFORMANCE

- ✚ INCREASED FEED CONVERSION
- ✚ ENHANCED GROWTH PERFORMANCE
- ✚ IMPROVED ANIMAL WELFARE

SPECIAL ADVANTAGES

- ✚ HIGHLY DIGESTIBLE PROTEIN
- ✚ BENEFICIAL AMINO ACID PROFILE
- ✚ FREE OF ANTI-NUTRITIONAL FACTORS
- ✚ INCREASE PALATABILITY OF FEED
- ✚ PREBIOTIC EFFECTS

Dosage:

Broiler

Starter : 500 - 750 gm **I-CARE** per ton of feed

Grower : 250 - 350 gm **I-CARE** per ton of feed

Layer :

250 - 500 gm **I-CARE** per ton of feed

Fish :

500 - 1000 gm **I-CARE** per ton of feed

Cattle :

500 gm **I-CARE** per ton of feed



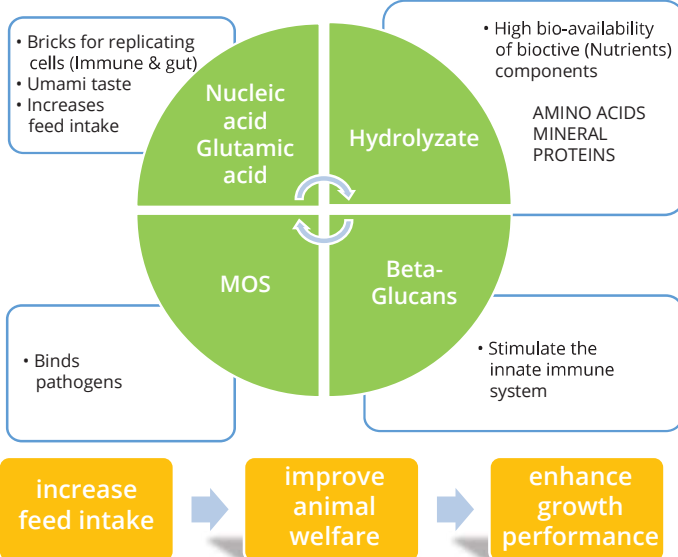
I-CARE ► MODE OF ACTION

The natural content of **GLUTAMIC ACID** gives typical **umami taste** and **increases feed intake**.

High bio-availability of **BIOACTIVE COMPONENTS** improves intestinal integrity and function. Mannan-oligosaccharides (**MOS**) bind **pathogens** and support positive intestinal microbiota.

β-GLUCANS stimulate the innate immune system.

- + BETTER PERFORMANCES
- + BETTER WELL-BEING
- + HIGHER INCOME



BETTER FEED CONVERSION RATE

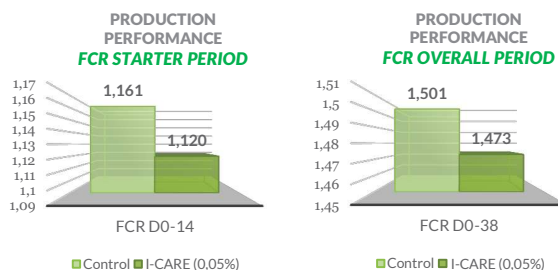
Hydrolysis process increases availability and digestibility of nutrients. Thanks to improvement of quality and digestible components, poultry performances are guaranteed.

I-CARE had a significantly improved FCR during:

STARTER PHASE : 0-14 days

OVERALL PERIOD : 0-38 days

Result was statistically effects $p = 0.002$

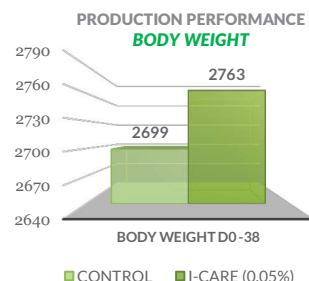


IMPROVEMENT OF BODY WEIGHT GAIN

Better feed conversion rate & improved body weight gain in poultry that received **I-CARE**

Average body weight at the endpoint (D38) was 2763 g, which is higher than the commercial target for male broilers (2600 g; Aviagen, 2014).

- + GUT INTEGRITY
- + BETTER PERFORMANCE



PACKAGING

25 Kg Paper Bag

SHELF-LIFE

24 months from production date



PROSOL S.P.A.
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www.prosol-spa.it

45 years of history with yeast



PROSOL designs and manufactures **innovative** and **unique** ingredients for nutrition by the most advanced **biotechnologies**

Certifications

ISO 9001
GMP+
IFS
OHSAS 18001

HALAL
KOSHER
ISO 14001
ORGANIC FEED

Ethic code

SEDEX - SMETA approved

Partners



WAGENINGEN UNIVERSITY



BERLIN UNIVERSITY



MILAN UNIVERSITY



GERMANY



GENT UNIVERSITY (PROVAXS)



BOLOGNA UNIVERSITY



TURIN UNIVERSITY



PAVIA UNIVERSITY



NETHERLANDS



NETHERLANDS