



Saccharomyces boulardii survives to gastric acidity and resists to proteolysis quickly achieving high concentrations in the gastrointestinal tract.

It resists to all commonly used antibiotics (can be used with standard antibiotic protocols).

The capacity to colonize the gastrointestinal tract and to secrete protease allows to protect and re-establish the microflora, thereby to maintain a digestive balance and keep intestine functioning well.

A yeast for health

MECHANISM OF ACTION

- Anti-secretory effects induced by toxins
- Inhibition of toxin binding to receptors
- Immunological effects
- Stimulation of intestinal immune response
- Trophic effects on intestinal mucosa



Protective barrier

Upon administering *Saccharomyces boulardii*, it has laid down a protective barrier in the gastrointestinal tract within three days.

GNOSIS CLINICAL TRIALS

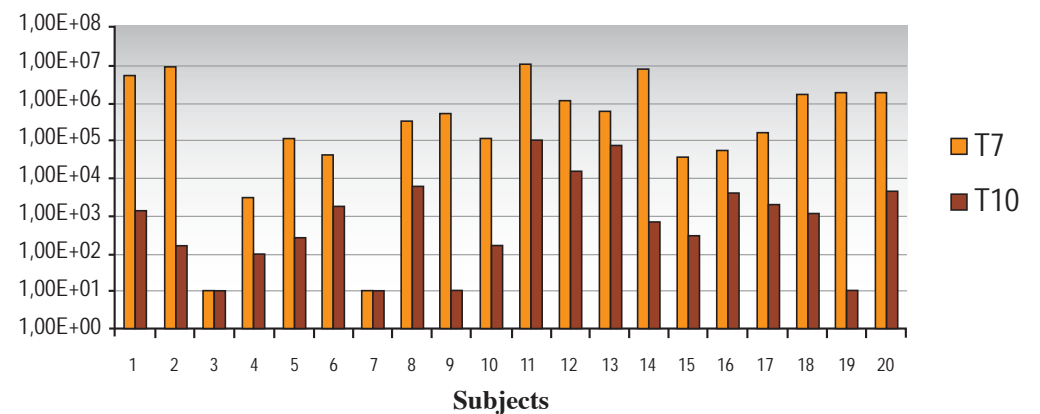


Figure: Yeast counts from three sampling times for the twenty subjects, belonging to both trial arms: Codex group from 1 to 10 and Gnosis product from 11 to 20 at day 7 and 10.

Gnosis *S.boulardii* is able to colonize and persist in healthy volunteers gut after 7 days period of daily intake. A preliminary observation suggests that some events have occurred in supplying a better persistence of the strain, improving the recovery in the intestinal district of *S. boulardii*-Gnosis treated subjects.

Human studies were carried out by Lorenzo Morelli, MD, PhD, Chancellor at the University Cattolica del Sacro Cuore of Piacenza.

is a probiotic acting as a temporary flora to protect intestinal tract and good germs in the intestine.

Capable of surviving to gastric acidity and to resist to all commonly used antibiotics, is clinically recognized for its efficacy both to preserve flora in the intestinal tract and to prevent and treat diarrhoea events in all age groups, including children.

GNOSIS SUPPLIES PHARMACEUTICAL GRADE *S. boulardii*. DMF available.

***S. boulardii* has been successfully researched and tested in many countries worldwide for over 50 years**



NATURAL INTESTINAL PROTECTIVE BARRIER

Many clinical studies have shown the efficacy of *S. boulardii* both in prevention and/or treatment of various intestinal disorders:

- ✓ Antibiotic-Associated Diarrhoea (AAD)
- ✓ Clostridium difficile related clostridiosis (CDD)
- ✓ Clostridium difficile - associated enterocolopathies in infants
- ✓ Stimulation of intestinal immune response
- ✓ Acute Diarrhoea in adults
- ✓ Traveller's Diarrhoea
- ✓ Acute diarrhoea in children

Objective	Study size	Number on S. b.	Efficacy of S. b.	Reference
<i>Prevention of AAD</i>				
AAD	388	199	143	Adam et al., 1977
AAD	180	116	56,7	Surawicz et al., 1989
AAD	181	89	55,9	McFarland et al., 1993
<i>NG tube diarrhea</i>				
NG tube diarrhea	40	20	48,5	Tempé et al. 1983
NG tube diarrhea	18	9	66,7	Schlottterer et al. 1987
<i>Treatment of C. difficile disease</i>				
Paediatric acute diarrhea	102	45	46,5	Surawicz et al. 1993
Paediatric acute diarrhea	38	19	76,2	Chapoy, 1985
Paediatric acute diarrhea	130	65	75,0	Cetina-Sauri and Basto, 1989
Adult acute diarrhea	92	43	75,0	Höchter et al., 1990
Chronic diarrhea in HIV patients	36	18	52,8	Saint-Marc et al., 1991

Non Reported adverse events

DOSAGE

Typical daily dosage of *Saccharomyces boulardii* yeast is 250 mg (standardized to provide 5×10^9 colony-forming units per gram) to be taken while travelling or when starting the antibiotic treatment and continuing for a few days after antibiotics are stopped.

SAFETY

Saccharomyces boulardii does not permanently colonize the colon and does not easily translocate out of the intestinal tract. It is eliminated after supplementation is stopped.

Saccharomyces boulardii has proven to be safe for all age groups tested, including infants. It is an effective anti-diarrhoeal biotherapeutic agent with a remarkable safety profile.

GNOSIS IS PROUD TO PROVIDE:

✓ Powder (20×10^9 CFU/g)

✓ Different mesh size

ABOUT GNOSIS

Headquartered in Desio, Milan, Italy, Gnosis is a biotechnology company specialized in the manufacturing and sales of fermentation raw materials and natural finished products.

With a solid commitment in Research & Development, Gnosis is able to develop innovative active ingredients that can be made specific to the customer and market needs.

Gnosis has an international manufacturing network dedicated to high-quality and proprietary products for pharmaceutical and nutritional applications.



advanced biotech

QUALITY & CERTIFICATIONS



These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.



advanced biotech

www.gnosis-bio.com