



GG LAC

HEALTHY TUMMY, HAPPY LIFE

L.rhamnosus GG (ATCC 53103) probiotic supplement for a healthy gut

4 in 5 older adults will battle at least one chronic condition due to dysbiosis

Lactobacillus rhamnosus GG, is one of the most extensively studied, widely used probiotic strain with beneficial effects proven in both children and adults

CAUSES

Dysbiosis is an imbalance of the microbial ecosystem along with the loss of beneficial bacteria. Gut dysbiosis has been implicated in a wide range of diseases which include intestinal disorders like IBD, IBS, coeliac disease, allergies, asthma, metabolic syndrome, cardiovascular disease and obesity.

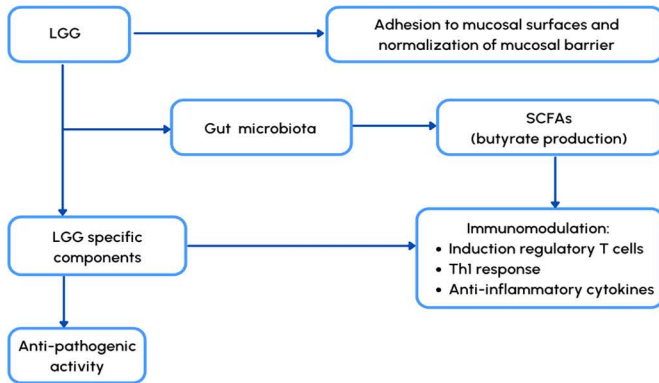
Typically, dysbiosis is due to:

- Unbalanced diet
- Alcohol consumption
- Antibiotic therapy, hormone therapy or chemotherapy
- Chronic and acute infections
- Inflammation

USAGES AND BENEFITS

- Reduces all types of diarrhea and associated symptoms
- Reduces Necrotizing enterocolitis (NEC) in preterm infants
- Promotes the growth of good gut bacteria
- Relieves indigestion
- Reduces respiratory infections
- Helps in weight management

MECHANISM OF ACTION

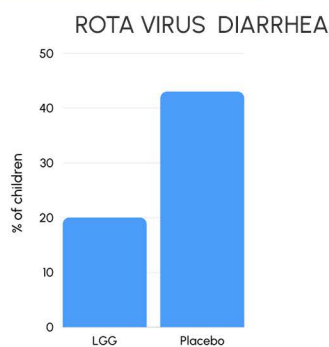


(Adapted from Cosenza et al., 2015)

LGG: Lactobacillus rhamnosus GG

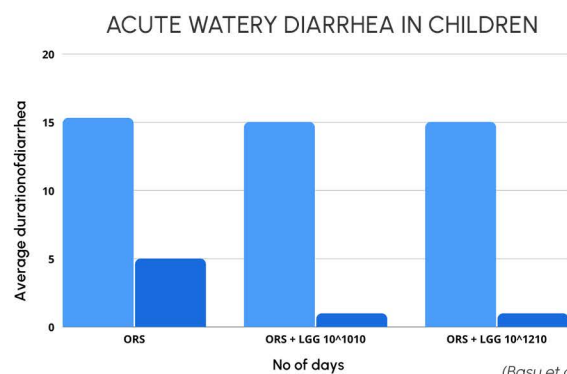
Multiple mechanisms of action which include (i) Adhesion to mucosal barrier and normalization (ii) Antagonistic activity towards pathogens (iii) Synergistic effect mediated by immunoregulatory components of *L. rhamnosus* GG, (iv) Gut microbiota modulation. Butyrate derived from the gut microbiota helps in stimulating an immune response.

CLINICAL STUDIES



(Kulandaipalayam et al., 2014)

Children with rotavirus diarrhea supplemented with Lactobacillus rhamnosus GG had significantly fewer subsequent diarrheal episodes



(Basu et al., 2009)

L. rhamnosus GG with ORS significantly reduced the frequency of diarrhea in children

Other indications for which efficacy has been established

- Gastroenteritis
- Clostridium difficile associated diarrhea
- Irritable bowel syndrome
- Inflammatory bowel disease
- Cardiovascular diseases
- Necrotizing Enterocolitis (NEC) in preterm infants
- Nonalcoholic steatohepatitis,
- Antibiotic associated diarrhea
- Traveler's diarrhea
- Abdominal pain, crying
- Respiratory tract infections
- Allergies
- Nonalcoholic fatty liver disease
- Cystic fibrosis,

COMPOSITION

GG LAC stick/sachet/capsule

Lactobacillus rhamnosus GG –6/10 billion cfu

GGLAC sticks are based on unique oro-dispersion technology, and it melts instantly in the mouth. This is an efficient oral delivery vehicle for children who have difficulty in swallowing tablets and capsules

DOSAGE

1-2 sticks/sachets/ capsules per day