

Reduced Sugar, Prebiotic Fortified Gummies

A fun way of delivering health! A tasty and effective format for delivering a daily dose of prebiotics and micronutrient supplements.

Prebiotics including short chain FOS is known to aid in immunity building, improved bone health and better mineral absorption in the body. What better way to get the FOSSENCE (R) advantage than in fun filled, sugar reduced gummies. The Gummies are self-stable and a good channel to pass on digestive health without changing the conventional production process. Reduced sugar prebiotic enriched gummies makes the gut feel good and heart filled with fun.



Functional Advantages

- Improved mouth feel.
- Improved flavour delivery.
- Partial sugar replacement potential.
- No change in the process, no special equipment required.
- Heat stable.

Prebiotic Advantage

Fecal Microbial Composition

FOS increases fecal numbers of Bifidobacteria and Lactobacilli and decreases those of E.coli

Colonic Luminal pH

FOS increases volatile fatty acids which reduces intestinal pH that is detrimental to pathogenic growth

Intestinal Absorption of Minerals

FOS improve the apparent total tract digestibility of several minerals

Fecal Bacterial Metabolites

FOS increases fecal acetate, propionate butyrate, and total SCFA and reduces circulating ammonia and fecal phenol

Insulin Sensitivity

sc-FOS reduces basal insulin resistance, alters glucose and lipid metabolism, and improve glucose homeostasis

Immunity

sc-FOS supplementation has been linked with higher IgM levels, an immune parameter

Specific Benefits



Muscle Building

Enhanced bio-availability of amino-acids.



Women Nutrition

Reduced bone loss, positive defense towards gestational diabetes, UTIs.



Sports Nutrition

Sustained glycemia, reduced GI distress & improved immune-competence.



Geriatric Nutrition

Improved gut barrier, regulated bowel movements improved immune-competence and over all metabolic health.

Recipe

Ingredients	Control	With FOS
Sucrose	38.796	28.796
Corn Syrup	20.394	20.394
FOS 95	-	10.000
Pectin	0.600	0.600
Citric Acid	1.200	1.200
Sodium Citrate	0.800	0.800
Gelling Agent 1	2.254	2.254
Gelling Agent 2	0.600	0.600
Green Mango Flavor	0.900	0.900
Green Color	0.016	0.016
Spices	0.100	0.100
Water	34.344	34.344
Total	100.00	100.00

Nutritional Advantage

Parameter	Control	With FOS
Energy (kcal)	218.97	180.43
Total Fat (g)	0.02	0.02
Saturated Fat (g)	0.00	0.00
Trans Fat (g)	-	-
Total Carbohydrate (g)	57.24	54.74
Of which Sugars (g)	54.09	44.47
Dietary Fiber (g)	0.34	7.46
Protein (g)	0.02	0.02

About TATA NQ

Tata NQ is the Nutritional Solutions Division of TATA Chemicals Ltd, a group company of the \$140 bn Tata conglomerate - offering science backed nutritional solutions through innovative ingredients, food technology service, R&D and world class manufacturing facilities.



Only full scale Manufacturer of FOS and GOS Prebiotics in India



Biggest Manufacturer, using whole cell technology



State - of the art Manufacturing Facilities in Nellore and Sriperumbudur.



60 Member food-tech & R&D Scientists based out of Pune Innovation Center



Certification FSSCI, FDA GRAS, Halal, Kosher, GMP



Numerous patents & international Publication



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