NutriDyn®

UltraBiotic Integrity

Targeted Probiotic Support for Gastrointestinal Integrity♦

PRACTITIONER EXCLUSIVE

UltraBiotic Integrity Supplementation

Proper gastrointestinal integrity is of utmost importance for a myriad of vital processes, including nutrient absorption, digestive function, healthy immune response, body weight regulation, and much more.♦

UltraBiotic Integrity contains a specific beneficial strain of *Bifidobacterium lactis* known as B-420™.

Research continues to demonstrate the emerging importance of *Bifidobacterium lactis* B-420™ for promoting healthy gastrointestinal integrity and supporting a variety of other beneficial activities throughout the body.♦

UltraBiotic Integrity provides 10 billion colony-forming units (CFU) of *Bifidobacterium lactis* B-420™ per serving for proper efficacy. Research suggests that the benefits of UltraBiotic Integrity may include:

- Supports gastrointestinal integrity♦
- Promotes healthy inflammatory processes♦
- Supports healthy body weight♦
- Supports a healthy immune response♦

How UltraBiotic Integrity Works

Bifidobacteria are a genus of bacteria that are especially important for aiding nutrient digestion and endogenous vitamin synthesis.♦[1] While there are several beneficial *Bifidobacteria*, research has been focusing on a specific probiotic strain as of late—*Bifidobacterium lactis* B-420™.

Bifidobacterium lactis B-420™

B. lactis B-420™ is a promising probiotic strain that readily resists bile salts and acidic conditions of the human digestive tract, enabling it to efficiently colonize the gut.[2]

A body of evidence suggests that this particular strain of *B. lactis* has beneficial activities for gastrointestinal (GI) health, working through a variety of biological mechanisms to support GI integrity.♦

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In fact, a recent study found a novel relationship between *B. lactis* B-420™ and cyclooxygenases (COX) -1 and -2 expressions, with the researchers concluding that this particular probiotic strain may play an important role in inflammatory processes throughout the GI tract.♦[3] A similar study also found that *B. lactis* B-420™ promotes healthy intestinal epithelial cells and supports tight junction integrity.♦[4]

Further research suggests *B. lactis* B-420™ may present an efficacious strategy for reducing the risk of certain abnormalities by reversing bacterial translocation from the intestinal mucosa to adipose tissue, as well as by decreasing body weight gain associated with excessive energy (calorie) intake.♦[5,6]

B. lactis B-420™ has also been shown to promote healthy immune function (e.g. support phagocytic activity) and reduce plasma lipopolysaccharide levels, thereby helping protect the body from potential toxins.♦[7]

Supplement Facts

Form: 30 Capsules

Serving Size: 1 Capsule

Ingredients:	Amount	%DV
Bifidobacterium lactis B-420™††	10 Billion CFU†	*

Other Ingredients: Microcrystalline cellulose, digestive resistant capsule (hypromellose, gellan gum), vegetable stearic acid, vegetable magnesium stearate, silicon dioxide.

† At time of manufacture.

†† B-420™ is a trademark of DuPont or its affiliates.

Directions: Take one capsule daily or as directed by your healthcare practitioner.

Caution: *If you are pregnant, nursing, or taking medication, consult your healthcare practitioner before use. Keep out of reach of children.*

References:

1. Karina Pokusaeva, Gerald F. Fitzgerald, Douwe van Sinderen (2011). Carbohydrate metabolism in Bifidobacteria. *Genes Nutr.; 6*(3): 285–306.
2. Hyronimus, B., Le Marrec, C., Sassi, A. H., & Deschamps, A. (2000). Acid and bile tolerance of spore-forming lactic acid bacteria. *International journal of food microbiology, 61*(2), 193-197.
3. Nurmi, J. T., Puolakkainen, P. A., & Rautonen, N. E. (2005). Bifidobacterium Lactis sp. 420 up-regulates cyclooxygenase (Cox)-1 and down-regulates Cox-2 gene expression in a Caco-2 cell culture model. Nutrition and cancer, 51(1), 83-92.
4. Putaala, H., Salusjärvi, T., Nordström, M., Saarinen, M., Ouwehand, A. C., Hansen, E. B., & Rautonen, N. (2008). Effect of four probiotic strains and Escherichia coli O157: H7 on tight junction integrity and cyclo-oxygenase expression. Research in microbiology, 159(9-10), 692-698.
5. Amar, J., Chabo, C., Waget, A., Klopp, P., Vachoux, C., Bermúdez-Humarán, L. G., ... & Ouwehand, A. (2011). Intestinal mucosal adherence and translocation of commensal bacteria at the early onset of type 2 diabetes: molecular mechanisms and probiotic treatment. EMBO molecular medicine, 3(9), 559-572.
6. Stenman, L. K., Waget, A., Garret, C., Klopp, P., Burcelin, R., & Lahtinen, S. (2014). Potential probiotic Bifidobacterium animalis ssp. lactis 420 prevents weight gain and glucose intolerance in diet-induced obese mice. Beneficial microbes, 5(4), 437-445.
7. Klein, A., Friedrich, U., Vogelsang, H., & Jahreis, G. (2008). Lactobacillus acidophilus 74-2 and Bifidobacterium animalis subsp lactis DGCC 420 modulate unspecific cellular immune response in healthy adults. *European Journal of Clinical Nutrition, 62*(5), 584.

PRODUCED IN A cGMP FACILITY | NON-GMO | GLUTEN-FREE | DAIRY-FREE | VEGETARIAN

♦ 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.

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