Flora Supreme DF provides four researched strains of beneficial bacteria, including the extensively studied HN019 strain of Bifidobacterium lactis. These live microorganisms have proven health benefits and well-established safety, and have been tested for epithelial cell adhesion and/or resistance to low pH.

**Clinical Applications**

- Helps Maintain a Healthy Intestinal Microecology*
- Supports the Natural Immune Response*
- Supports Bowel Regularity*
- Supports Lactose Digestion*

**Discussion**

Supplementation with probiotics has many mechanisms of action that benefit health, including but not limited to: (1) supporting metabolic activity, such as the production of short-chain fatty acids and vitamins, nutrient absorption, and digestion of lactose; (2) adhering to intestinal epithelial cells to help maintain a healthy balance of organisms in the intestinal tract; (3) helping to establish populations of good bacteria after disruption in balance; (4) supporting immune function; (5) promoting intestinal epithelial cell survival; (6) supporting healthy bowel function; and (7) degrading oxalates.\[^{[1-8]}\]

Common challenges associated with probiotic supplementation are maintaining stability of the organisms during distribution and shelf life and, once taken by a consumer, survival of the organisms as they travel through the digestive tract so that they reach the target tissue (intestines) alive. To help ensure stability, Slim & Trim™ packages the Flora Supreme DF capsules in sealed, nitrogen-purged aluminum blister packs to serve as protection from factors proven to compromise the stability of probiotics, such as heat, moisture, and oxygen. Careful selection of organisms is another way Slim & Trim™ helps ensure stability. Careful organism selection, as performed for Flora Supreme DF, is also a critical aspect of supporting digestive survival. To further support resistance to low pH and the delivery of microorganisms to the small intestines, Slim & Trim™ employs DRcaps™ gastro-resistant capsules. These specially designed, innovative capsules help slow exposure of actives to stomach acid to promote a more targeted release.

HOWARU™ (Bifidobacterium lactis HN019) Discovered in 1899, B lactis plays a key role in the human microflora throughout a person’s life. Researchers have identified strain HN019 as having excellent probiotic potential based upon its ability to survive the transit through the human gastrointestinal tract, adhere to epithelial cells, and proliferate.\[^{[9]}\] B lactis HN019 has been extensively studied, and its safety and effectiveness is well accepted.\[^{[7,8]}\] To assess the impact of Bifidobacterium lactis HN019 supplementation on whole-gut transit time in adults, 100 subjects were given daily doses for 14 days of 17.2 billion colony-forming units (CFU), 1.8 billion CFU, or placebo. Decreases in mean whole-gut transit time over the 14-day study period were statistically significant in the high-dose group and the low-dose group, but not in the placebo group.\[^{[9]}\] This level of dosing also supported other parameters of healthy GI function, as were self-reported by patient survey.

In another study of preschool-age children, supplementing milk for one year with 1.9 x 10^9 CFU per day B lactis HN019 and 2.4 g/day of prebiotic oligosaccharides supported both healthy iron status and weight gain.\[^{[9]}\] In a randomized, double-blind, placebo-controlled human dietary intervention study in elderly subjects (>60 yrs.), supplementary B lactis HN019 resulted in statistically significant increases in the beneficial organisms bifidobacteria and lactobacilli.\[^{[10]}\]

*Lactobacillus acidophilus* (*Lactobacillus acidophilus La-14*) This common inhabitant of the human mouth, intestinal tract, and vagina, is also found in some traditional fermented milks (e.g., kefir) and is widely used in probiotic foods and supplements. It has a history of safe human consumption. The *L. acidophilus* La-14 strain is of human origin and has been identified as a type A1 *L. acidophilus*. *L. acidophilus* shows excellent adhesion to human epithelial cell lines.\[^{[11,12]}\]

*Lactobacillus plantarum* (*Lactobacillus plantarum Lp-115*) This bacteria was isolated from plant material and is abundantly present in lactic acid-fermented foods, such as olives and sauerkraut. In vitro studies have shown that *L. plantarum* strain Lp-115 has excellent adhesion to epithelial cell lines.\[^{[13]}\] In addition, *L. plantarum* is resistant to low pH conditions and survives the presence of bile at duodenal concentrations.\[^{[13,14]}\]

*Bifidobacterium longum* (*Bifidobacterium longum Bl-05*) The *B. longum* Bl-05 strain is well accepted as safe for human consumption. *B. longum* is resistant to low pH and bile salts and is well suited to the intestinal environment.\[^{[14]}\]

\[^{[1]}\] 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.
**Flora Supreme DF**

**Supplement Facts**

<table>
<thead>
<tr>
<th>Serving Size: 1 Capsule</th>
<th>Servings Per Container: 30</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amount Per Serving %Daily Value</strong></td>
<td><strong>Proprietary Blend</strong></td>
</tr>
<tr>
<td>HOWARU® Bifido (Bifidobacterium lactis HN019)</td>
<td>15 Billion CFU†</td>
</tr>
<tr>
<td>Lactobacillus acidophilus La-14</td>
<td><strong>Daily Value not established.</strong></td>
</tr>
<tr>
<td>Lactobacillus plantarum Lp-115</td>
<td><strong>Daily Value not established.</strong></td>
</tr>
<tr>
<td>Bifidobacterium longum Bl-05</td>
<td><strong>Daily Value not established.</strong></td>
</tr>
<tr>
<td><strong>Other Ingredients:</strong> Microcrystalline cellulose, HPMC (acid-resistant capsule), stearic acid, magnesium stearate, and silica.</td>
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</tr>
</tbody>
</table>

† Colony-Forming Unit

HOWARU® is a registered trademark of Danisco A/S and used under license.

**Directions**

Take one capsule with water daily, or as directed by your healthcare practitioner.

Children and pregnant or lactating women should consult their healthcare practitioner prior to use.

**Does Not Contain**

Wheat, gluten, corn, yeast, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or preservatives.

**References**


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