



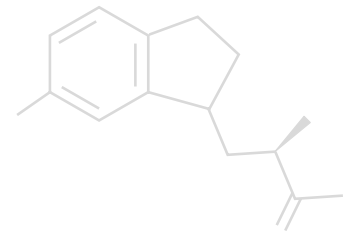
NeuroBiota

Combination of two uniquely designed blends of shelf-stable probiotics important for the gut-brain axis, improvement of mood, neurotransmitter synthesis, and balancing the immune response*

- ✓ Room temperature stable
- ✓ Diverse lactobacilli selected for gut integrity^{3,4*}
- ✓ Unique, mood-boosting strains^{1,2*}
- ✓ Moisture-decreasing glass bottle

Key Ingredients

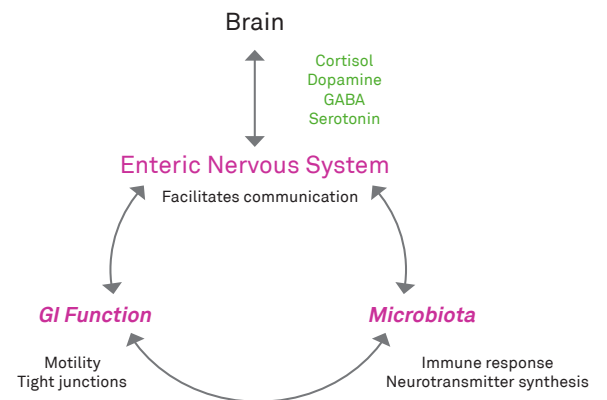
<p>ProBlend Blend important for general gut health and immune response^{1,2*}</p>	<ul style="list-style-type: none"> ■ Lactobacilli as a species have been found to demonstrate immunomodulatory effects through natural detoxification and balancing the metabolism^{3,4*} ■ <i>Lactobacillus rhamnosus</i> (GG), one of the most studied probiotic strains in the world, demonstrates protective effects of epithelial barrier function against an unbalanced microbiota both <i>in vitro</i> and <i>in vivo</i>^{5,6*}
<p>NeuroBlend Blend important for neurotransmitter synthesis^{3,6*}</p>	<ul style="list-style-type: none"> ■ In a double-blind, placebo-controlled study, <i>B. longum</i> (Rosell®-175) and <i>L. helveticus</i> (Rosell®-52) significantly improved mood and median cortisol levels^{1*} ■ <i>Lactobacillus brevis</i> demonstrated the most efficient GABA production compared to 91 other strains^{2*}



The Science

- The brain receives neurotransmitters synthesized in the gut and promotes gut health through **motility, immune health, and tight junction function**⁶⁻⁹
- The enteric nervous system contains **5x** as many neurons as the spinal cord and helps relay messages from the brain to the gut⁸⁻¹⁰
- Proper gut health promotes **balanced immune function, healthy neurotransmitter production**, and improved digestion⁸

The Gut-Brain Connection

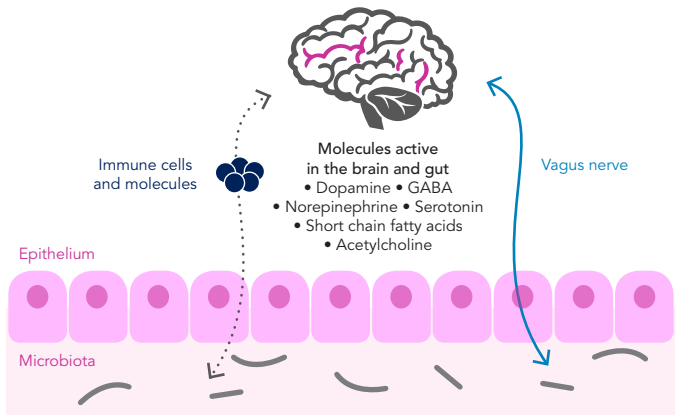


Green = Biomarker

*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.

MORE SCIENCE BEHIND NEUROBIOTA

Figure 1. Neurotransmitters and the Gut



The microbiota helps regulate neurotransmitter synthesis and gut health

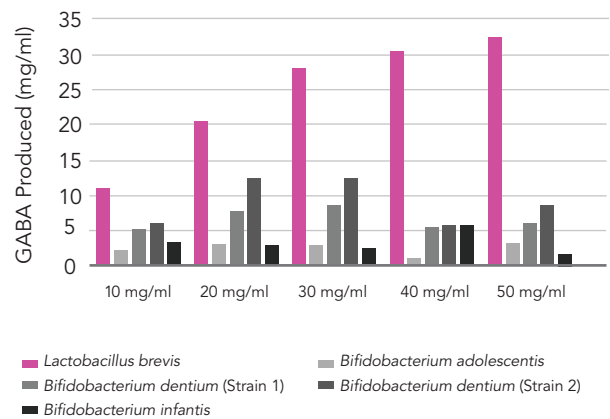
The gut creates and stores a significant number of neurotransmitters and neurotransmitter receptors¹²

- The gut contains more than 90% of the body's serotonin and more than 50% of the body's dopamine¹³
- GABA receptors along the gastrointestinal tract help modulate gut motility, gastric emptying, and immune function^{13,14}

A properly balanced microbiota is essential to promote general GI health and neurotransmitter levels^{15,16}

- The microbiota regulates key neurotransmitter levels including GABA, norepinephrine, dopamine, and serotonin¹⁶
- Conversely, a poor microbiota can directly impact serotonin migration to the brain and expression of brain-derived neurotropic factor (BDNF) as seen *in vivo*^{17,18}

Figure 2. Probiotic Strain by Production of GABA



Benefits of Specific Strains in NeuroBiota

Certain probiotics influence neurotransmitter production and emotional well-being more than other strains

- Of the 91 strains tested, only 5 produced GABA, and *L. brevis* produced the most GABA (Fig. 2)^{2,13*}
- In a double-blind, placebo-controlled study, *B. longum* and *L. helveticus* were shown to improve mood and stress (as measured by HAD scores) and decrease cortisol more than twice the control^{1*}

Including a variety of lactobacilli strains can help to improve the immune response and gut integrity^{3,4*}

- *L. rhamnosus* (GG) has been found to promote proper intestinal barrier function and support general gut-health^{5,6*}
- An *in vivo* study found that a postbiotic created by *L. rhamnosus* (GG) helped modulate intestinal barrier function by regulating immune factors like TNF- α ^{19*}

NeuroBiota contains 7 unique and diverse lactobacilli strains to help populate the microbiota and provide specific strains important for emotional well-being^{1*}



Find the right supplement with NeuroSelect

Learn more at www.neuroselect.com

Item Number	Available Sizes	Serving Size
20049	30 Capsules	1 Capsule

All NeuroScience products undergo rigorous third-party testing to guarantee label claims of each ingredient and the absence of heavy metals, pesticides, residual solvents, and microbes

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