

Bened Life

Neuralli[®] MP

The First Gut-Brain Probiotic Medical Food

Features the most clinically-studied strain for autism: PS128™

Provides dietary management of neuro-developmental conditions such as ASD



Dietary Management of the Gut-Brain Axis in Autism

Neuralli MP features *L. plantarum* PS128 at the clinically-studied amount of 60 billion colony-forming units (CFU) per serving. PS128 is the most clinically-studied strain for autism, backed by four clinical trials. This oral probiotic has a history of safety and trials demonstrating that it provides dietary management of autism with the following clinically-meaningful outcomes:

- Reducing anxiety or anxious behaviors¹⁻⁴
- Improving attention in 7-12 year olds¹



DIETARY MANAGEMENT OF THE GUT MICROBIOME-TO-BRAIN SIGNALING AXIS

Autism, as a neurodevelopmental disability, is accompanied by multiple challenges associated with the gut microbiome-to-brain axis. A recent multi-level analysis shows that immune responses and amino acid, lipid, and carbohydrate metabolism associate with the microbiome in ASD.⁵ Autism is associated with dopamine and serotonin imbalances, immune changes, and altered microbial metabolites.⁶⁻¹⁰

Gut microbes impact brain development through nutrient processing and immune signals. Microbes in the form of medical probiotics may help through the gut microbiome-to-brain axis to alter underlying challenges with metabolism, absorption, and the immune response, leading to clinically meaningful outcomes such as a reduction in anxiety.

***Lactiplantibacillus plantarum* PS128** is a psychobiotic; that is, a probiotic that benefits a psychiatric condition.¹¹ Preclinical studies suggest that

- PS128 appears to balance neurotransmitters dopamine and serotonin in the brain¹²
- PS128 modulates the immune response¹²
- PS128 improves behavior that correlates with changes in gut bacteria,¹³ which may affect microbial metabolism

Dietary Management Results in Improvements on the Clinical Global Impression Scale

A randomized, double-blind, placebo-controlled study provided PS128 as a nutritional add-on to therapy alongside other therapies. In four months, 57.5% of participants taking PS128 experienced improvements in the Clinical Global Impressions-Improvement (CGI-I) scores vs 32.5% in control (Figure 1).³

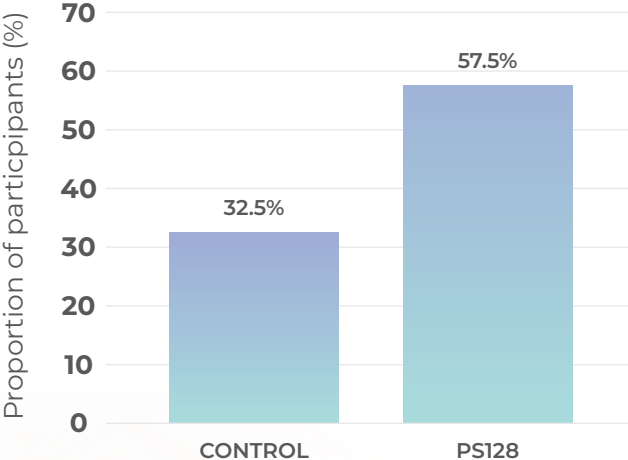


Figure 1: Proportion of participants with improved CGI-I scores in the PS128 and control group after 28 weeks.

A real-world study of 131 Autistic children administered PS128 as a nutritional add-on to other therapies for six months. 86.7% of children taking PS128 showed improvement compared to 38.5% taking other probiotics (Figure 2). Overall, reported benefits included attention, communication, personal autonomy, and reduced repetitive behaviors.⁴

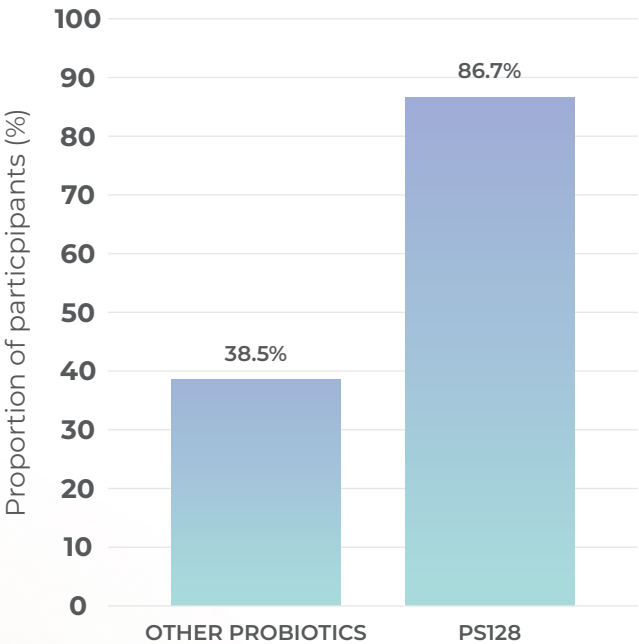


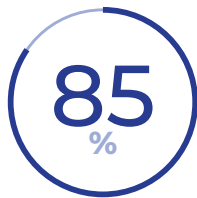
Figure 2: Proportion of participants with improved CGI-I scores in PS128 and Other Probiotics group over six months.



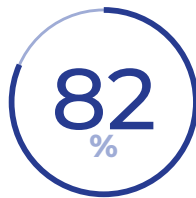
Neuralli MP: Dietary Management of ASD

REAL PEOPLE. REAL RESULTS.

From survey results collected 2023-2024, Neuralli MP taken by Autistic individuals for more than six months resulted in the following benefits:‡



Quality of life improved



Satisfied or highly satisfied



Gut-brain psychobiotic strain



Supports gut microbiome-to-brain signaling



Packaged in CSP bottles

Why recommend Neuralli MP to your patients?

1 SAFETY PROFILE

- No serious adverse events or allergic reactions reported in clinical studies on the strain.
- Strain taken alongside other interventions while participants were under physician supervision in studies. A healthcare professional should be consulted prior to starting Neuralli MP with any drugs modulating serotonin and dopamine.

2 COMMITMENT TO QUALITY

- Shipped fast, on ice when it's hot outside, to keep the probiotics alive.
- Packaged in CSP bottles which have an internal desiccant to keep the freeze-dried probiotic stable.

3 CUSTOMER RECOMMENDATIONS

- Autistic people taking Neuralli MP recommend it.
- 59% of those taking Neuralli MP for autism rated 7 or higher as likely to recommend Neuralli MP.‡

Bened Life

For more information visit:
benedlife.com/products/neuralli



Neuralli MP vegetarian capsules contain at least 60 billion CFU of *L. plantarum* PS128 per two-capsule serving.

Other ingredients: microcrystalline cellulose, magnesium stearate and silica. Formulated without wheat or milk.

Neuralli MP is intended to be administered under the supervision of a physician.

Directions: Take 2 capsules daily.

KEEP REFRIGERATED

Non-GMO

Vegan

References:

1. Liu YW et al. *Nutrients*. 2019;11(4):820.
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6. Sharon G et al. *Cell*. 2016;167(4):915-932.
7. Srikantha P, Mohajeri MH. *Int J Mol Sci*. 2019;20(9):2115.
8. Cetin FH et al. *Autism Spectrum Disorder-Recent Advances*. 2015; 15-30.
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13. Chen CM et al. *Gut Microbes*. 2024;16(1):2359501.

‡Survey conducted online by Bened Life, Inc. from Oct 2023 to Nov 2024 with Neuralli MP users. 98 total respondents took Neuralli MP for autism, and 33 took it for autism for more than 6 months.