



ExoBDNF®

BRAIN & COGNITION SOLUTION

EXOBDNF®: FAST & PRECISE BRAIN SUPPORT

ExoBDNF® is the commercial name of *Pediococcus acidilactici* SWP-CGPA01 and goes beyond traditional probiotics by producing **exosome-like vesicles (EVs)** that reach the brain via the gut-brain axis, helping elevate **brain-derived neurotrophic factor (BDNF)** levels to support cognition, mood, and sleep.

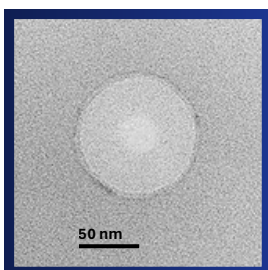
In addition, ExoBDNF® acts through both the **vagus nerve and systemic circulation**, enabling faster and more targeted brain support.

THE KEY TO BRAIN HEALTH: BDNF BOOSTER

BDNF is a key neurotrophin that supports neuron growth and survival, enhances synaptic plasticity, and plays a critical role in cognition, mood, and sleep regulation.

ExoBDNF® has been shown to **elevate human serum mature BDNF levels**, demonstrating its potential to promote overall brain health.

ACTING THROUGH EXOSOME-RELATED PATHWAYS



Exosomes are tiny 30~150 nm vesicles that deliver vital molecules for cell-to-cell communication.

ExoBDNF® generates functional ~100 nm exosome-like vesicles that can **cross the blood-brain barrier** and reach the brain, supporting neuronal and brain health.

SPECIFICATION

Pediococcus acidilactici
SWP-CGPA01

Recommended Dosage
5B-10B CFUs (50-100 mg) / day

Powder

PRODUCT ATTRIBUTES

- Brain Health Support
- Exosome-driven Benefits
- BDNF Enhancement
- Human Clinical Validation
- 2 Global Patents



Non GMO



Gluten Free



Vegetarian



HALAL



ISO 22000



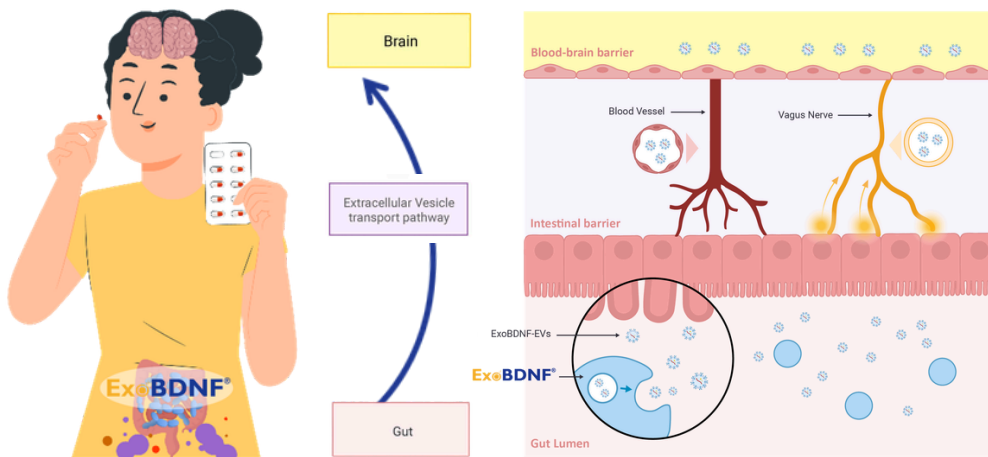
HACCP



GMP



❖ Step Inside the Mechanism



Reference
Frontiers in Neuroscience, 2023, 17: 1241418

*EVs: Exosome-like vesicles

After taking ExoBDNF®, exosome-like vesicles are released in the gut and reach the brain via the gut-brain axis, acting simultaneously through two key routes:

- **Vagus nerve**
- **Blood circulation**

This breakthrough **dual-pathway mechanism** enables rapid, highly targeted delivery of bioactives to boost BDNF expression.

❖ Benefits That Work Where It Matters Most



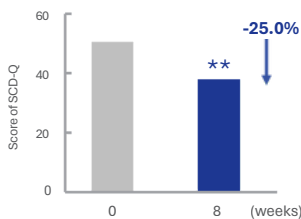
Self-perceived Cognitive Function

In a pre-post clinical study ($n = 30$ subjects), daily supplementation with 100 mg ExoBDNF® improved scores on the Subjective Cognitive Decline Questionnaire (SCD-Q) by 25% and the Taiwan Cognition Questionnaire (TCQ) by 55.2% after 8 weeks, indicating enhanced overall cognitive performance.

Working Memory Performance

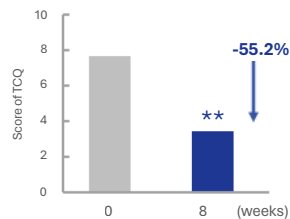
In a pre-post clinical study ($n = 30$ subjects), daily supplementation with 100 mg ExoBDNF® improved working memory accuracy by 66.7% and shortened working memory recall time by 17.6% after 8 weeks, indicating enhanced information processing capacity for more accurate and efficient memory performance.

Cognitive Function (SCD-Q)



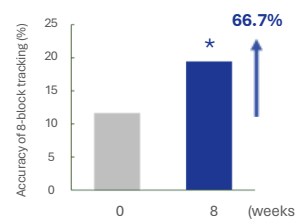
*Lower scores indicate better cognitive function

Cognitive Function (TCQ)

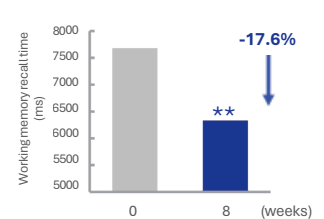


*Lower scores indicate better cognitive function

Accuracy



Recall Time



Cognitive Flexibility

With daily intake of 100 mg ExoBDNF® ($n = 30$ subjects), response time was reduced by 13.3% after 8 weeks, indicating faster response speed and enhanced cognitive flexibility, reflecting improved ability to adapt and shift focus.

Mood Balance

Mental health improved by 47% after 8 weeks of 100 mg ExoBDNF® supplementation ($n = 30$ subjects), reflecting better stress, anxiety, and mood states.

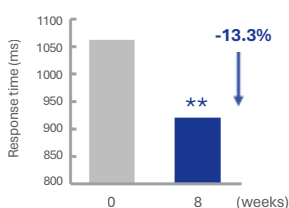
Sleep Quality

Self-perceived sleep quality improved by 26.1% after 8 weeks of 100 mg ExoBDNF® supplementation ($n = 30$ subjects).

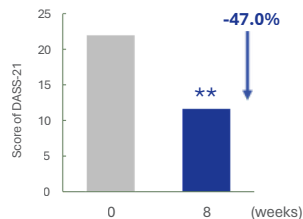
BDNF Levels

Mature BDNF, rather than total BDNF, is the biologically active form that supports neuronal function. Serum mature BDNF levels increased by 33.8% after 8 weeks of 100 mg ExoBDNF® supplementation ($n = 30$ subjects).

Response Time

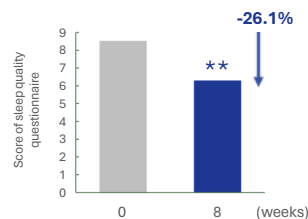


Mental Health



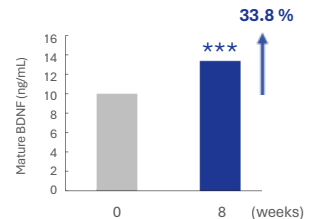
*Lower scores indicate better emotional state

Sleep Quality



*Lower scores indicate better sleep quality

Serum Mature BDNF



* 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.