



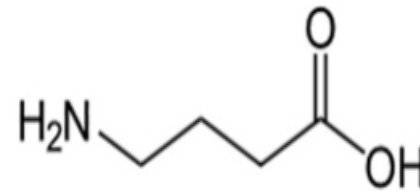
株式会社ファーマフーズ

PharmaGABA<sup>®</sup>

# GABA $\gamma$ -Amino Butyric Acid

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# GABA



A neurotransmitter , naturally made in the human brain

**What** is G amma A mino B utyric A cid ?

A type of amino acid found in vegetables, grains and fruits

# What is **PharmaGABA**<sup>®</sup> ?

Q  
A

## NATURAL FERMENTED GABA

Created through fermentation processes

## SAFE AND RELIABLE

No.1 Sales performance in Global sales and credibility!

## SCIENTIFIC EVIDENCES

Independently discovered scientific evidences

## RESEARCH POWER & BEST CS SERVICE

Research power to newly study and find customers' needs



Obtained U.S. FDA's  
GRAS SELF-AFFIRMED



MASTER FILE REGISTERED

# FUNCTIONALITY OF PharmaGABA

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PharmaGABA's benefits from controlling autonomic nerves scientifically proven



## RELIEVES STRESS, RELAXES AND REDUCED FATIGUE

PharmaGABA are more relaxed, showing an increase in  $\alpha$ -waves



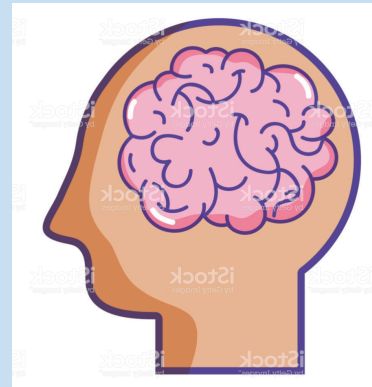
## IMPROVES SLEEP QUALITY

Wake up feeling refreshed!  
Satisfaction level of sleep quality



## INCREASES THE AMOUNT OF MUSCLE

PharmaGABA increases muscle by taking with whey protein



New Function!!

# Clinical trial: Cognitive improvement by PharmaGABA

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## ■ Purpose

To investigate the effects of continuous intake of PharmaGABA on cognitive function in healthy Japanese over 40 years old.

## ■ Experiment Design

A randomized, double-blind, placebo-controlled, parallel clinical trial.

## ■ Outline

- Large-scale human clinical trial with 120 subjects.
- Ingestion of PharmaGABA or placebo for 3 months.
- Assess cognitive function before intake and at the 4<sup>th</sup> , 8<sup>th</sup> and 12<sup>th</sup> week of ingestion.

Improved Cognitive Domains by GABA	Brief Description
Non-Verbal Reasoning	The ability to reason and understand visual or abstract information. The ability to recognize visual and abstract conceptual relationships.
Sustained Attention	The ability to control and maintain attention.
Working Memory	The ability to store information necessary for work in the short term.
Visuospatial/Construction	The ability to recognize and accurately compose spatial relationships of figures.
Delayed Memory	The ability to recall the words, figures, stories, etc. that you have seen or heard before.