

The impact of GABA on canine behavior

Canine anxiety—often triggered by loud noises, strangers, or changes in routine—can lead to destructive behavior. Emerging research links these responses to gut microbiome imbalances, underscoring the microbiome's role in emotional regulation. GABA, a key neurotransmitter, helps support stress resilience and calm in both dogs and humans.¹



Improving health through microbiome innovation



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Canine anxiety has far-reaching impacts



47%

of dog owners observe anxious behaviors related to separation. ²



58%

notice anxiety around strangers. ²



46%

see anxious behaviors when interacting with other dogs. ²

Anxiety is a widespread issue in dogs, **with more than 70%** exhibiting anxiety-like behaviors.² These behaviors—including hypervigilance, excessive barking, pacing, panting, compulsive licking, trembling, house soiling, destructive behavior, and aggression—can significantly affect canine well-being and disrupt households.



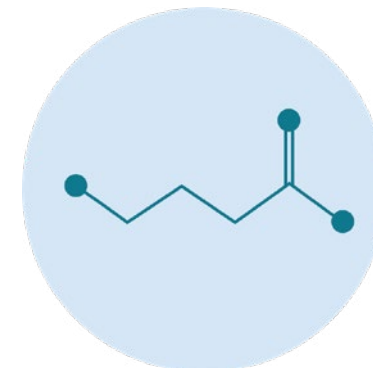
The canine gut-brain axis

Despite its prevalence, canine anxiety disorders are often overlooked in veterinary practice. Emerging research highlights the gut microbiota as a key modulator of the gut-brain axis, playing a crucial role in emotional regulation.

The canine gut hosts a diverse microbial community essential for maintaining intestinal homeostasis, with significant influence on mental health through metabolic, neural, endocrine, and immune pathways.³

One of the most notable pathways involves gamma-aminobutyric acid (GABA), a neurotransmitter essential for promoting relaxation and reducing stress responses by slowing the stimulation of specific nerve signals in the brain, supporting a reduction in anxiety-related behaviors.⁴





What is GABA?

GABA (Gamma-Aminobutyric Acid) is a major inhibitory neurotransmitter and functional metabolite that plays a key role in signaling the nervous system.

By slowing the stimulation of certain signals in the brain, GABA can aid in regulating how quickly neurons react, providing a calming effect.⁵ Studies suggest that orally administered GABA can help reduce stress-related behaviors and lower cortisol levels in dogs, supporting relaxation and emotional balance.⁶



GABA for dogs: untapped potential

While many dogs could benefit from a daily calming supplement, most options on the market focus on sedation rather than true relaxation—an approach that falls short for managing everyday behavioral concerns.

At Verb Biotics, we recognized the powerful benefits of LP815 on human stress, mood, and sleep, inspiring us to extend this natural, non-pharmaceutical solution to our furry companions facing similar challenges.

In an at-home, placebo-controlled study, LP815 demonstrated **significant improvements** in anxiety regulation, aggression reduction, and calming behaviors in dogs.

These findings underscore the potential of microbiome-based interventions as a natural, long-term approach to canine behavioral health. By harnessing the gut-brain axis, LP815 offers a groundbreaking, sustainable alternative to conventional anxiety management strategies, opening new doors in veterinary behavioral care.



The Verb Difference: caring for your canines

At Verb Biotics, we believe in advancing pet wellness without disrupting the lives of the animals we aim to support. That's why we took a different approach with our clinical research on LP815.

Instead of traditional animal testing, we conducted a real-world, at-home trial—allowing dogs to stay in their natural environments while we gathered meaningful insights on their behavior, anxiety levels, and sleep patterns.

But don't just take our word for it—hear from the pet parents who experienced the Verb Difference firsthand.



“Had a much easier time walking Chowder on a leash!”
- GISELE & CHOWDER



“Otis’ car reactivity has improved so much—we can now walk past busy streets with far fewer reactions!”
- CAROLYN & OTIS



“Knox is less nervous and much more playful. He’s acting like a puppy even in the evenings”
- RAPHAEL & KNOX

GABA Pet, LP815™: reduced anxiety & aggression support

LP815™ provides an innovative, long-term solution for canine anxiety, redefining traditional management strategies.

HOW DOES GABA PET WORK?

Lactiplantibacillus plantarum, LP815, consistently delivers clinically relevant doses of GABA directly in the gut. By leveraging the gut-brain axis, this innovative strain provides a long-term alternative to bolus GABA supplementation, offering sustained emotional support and stress resilience for dogs.

BENEFIT AREAS OF GABA PROBIOTIC, LP815™*

- Supports decreased anxiety
- Supports decreased aggression
- Supports restorative sleep

Proprietary Strain LP815™

Lactiplantibacillus plantarum, LP815™, a proprietary strain of lactic acid bacteria, was isolated for its ability to provide GABA production.

By utilizing advanced computational modeling and high-throughput screening, we benchmarked against the top strains in the industry to select a superior psychobiotic GABA producer.



TAKEAWAY

The ability of LP815 to produce GABA itself can be thought of as enabling a GABA factory in the gut.



Add Verb in your products

Partner with us to see how LP815™ can expand your calming canine supplement product line.



Let's Talk



LP815 can be used in your canine mood, stress, anxiety, and sleep applications. Add LP815 into food-topping powders, capsules, soft chews, and tablets for an added dose of daily calm.

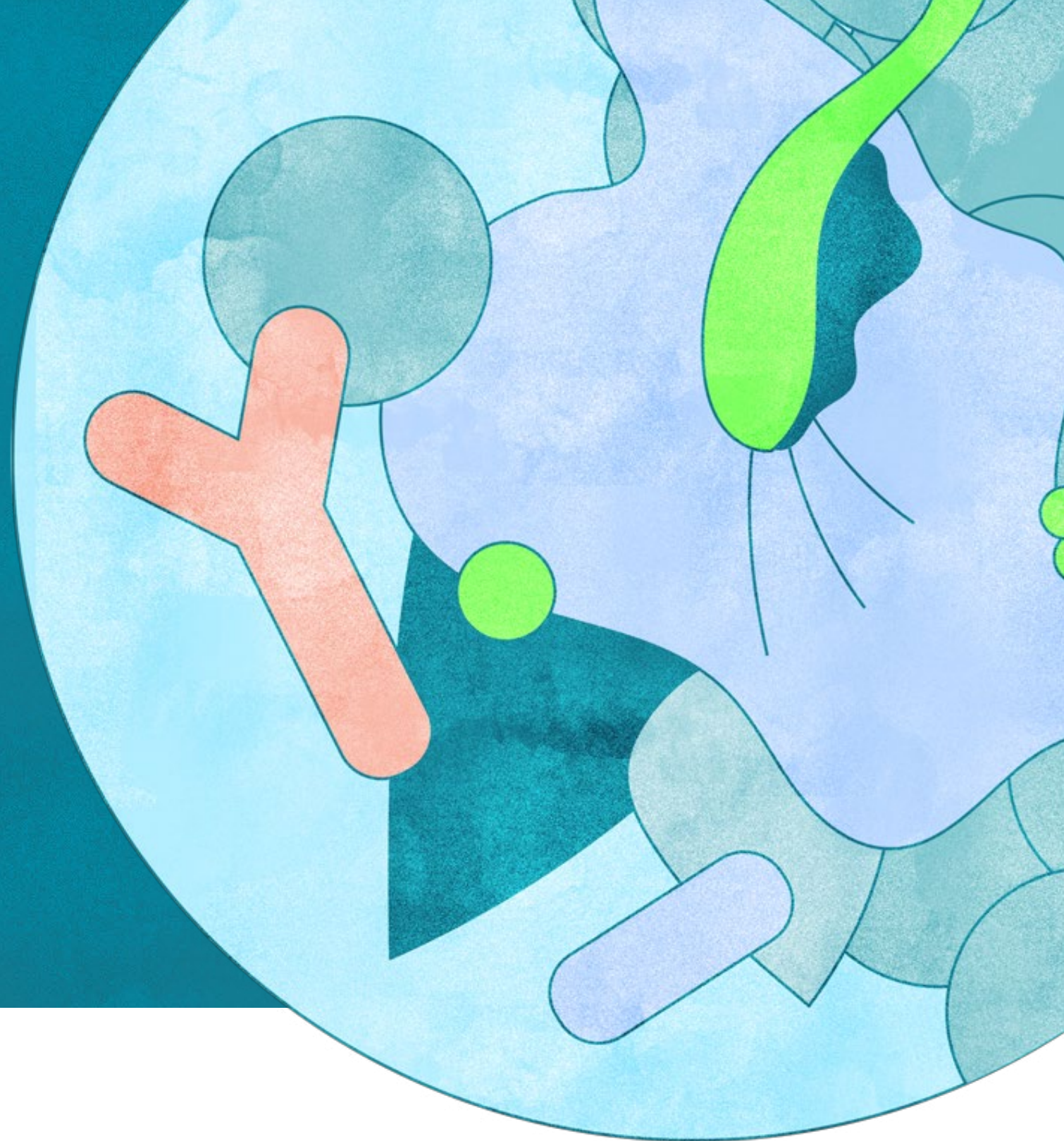
RECOMMENDED DOSE: 1 BILLION CFU (10 MG) PER 25LBS

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Improving health through
microbiome innovation

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