

**BECAUSE
A PET'S
LIFE ISN'T
ALWAYS
EASY**



**THE FIRST INTENTION
ANTI-ANXIETY SOLUTION**



L-THEANINE, AN ANTI-ANXIETY AMINO ACID

Found naturally in green tea whose calming properties are well documented

L-Theanine's mechanism of action is well described¹

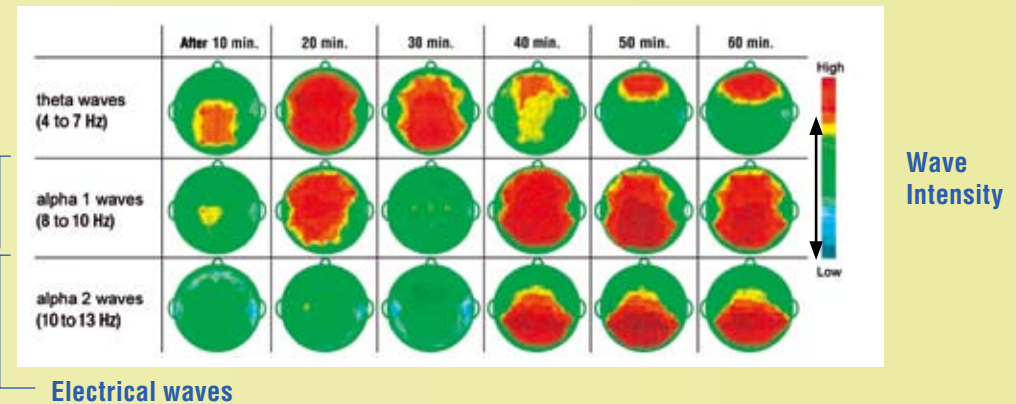
- Increases GABA (inhibitory neurotransmitter) levels. GABA regulates neuronal excitation in the CNS
- A structural analog of Glutamate (excitatory neurotransmitter). L-Theanine opposes Glutamate's action by attaching itself to its receptors

In vivo studies demonstrate its effectiveness in humans^{2,3}

- L-Theanine increases production of alpha waves in the brain
- Alpha waves reflect physical and mental relaxation

Brain waves	Frequency	Mental status
Delta waves	0.5 - 3 Hz	Deep sleep
Theta waves	4 - 7 Hz	Light sleep
Alpha waves	8 - 13 Hz	Alert, relaxed
Beta waves	14 Hz	Alert, relaxed

Brain waves and mental activity



Human brain wave topography over a period of 60 minutes after ingestion of L-Theanine.

¹Nathan et al. (2006) The Neuropharmacology of L-Theanine (N-Ethyl-L-Glutamine): A Possible Neuroprotective and Cognitive Enhancing Agent. Journal of Herbal Pharmacotherapy, Vol. 6(2), 21-30.

²Juneja LR, Chu DC, Okubo T, Nagato Y, Yokogoshi H (1999) L-Theanine-a unique amino acid of green tea and its relaxation effect in humans. Trends in Food Science & Technology, 10, 199-204.

³Song CH et al. (2003) Effects of theanine on the release of brain alpha waves in adult males. Korean J. Nutrition 36, 918-923

ANXITANE[®], A FIRST INTENTION SOLUTION FOR REDUCING ANXIETY RELATED PROBLEMS

Suntheanine[®] (patented process) = 99.95% pure L-Theanine

- Only Suntheanine achieves this level of purity and neurological activity
- A patented enzymatic method is used to produce pure L-Theanine

A treatment to manage anxiety

- Attenuates reactions characterized by fear or apprehension
- Helps keep pets calm and relaxed
- Decreases anxiety, making it easier for animals to learn
- Helps pets cope with changes in their environment



ANXITANE[®], A PROVEN CLINICAL RESPONSE



An open field trial designed and performed by two veterinary behaviorists (Drs. Valérie DRAMARD and Laurent KERN) and presented at the Animal Behavior Congress - Zoopsy (Marseille, October 2005)

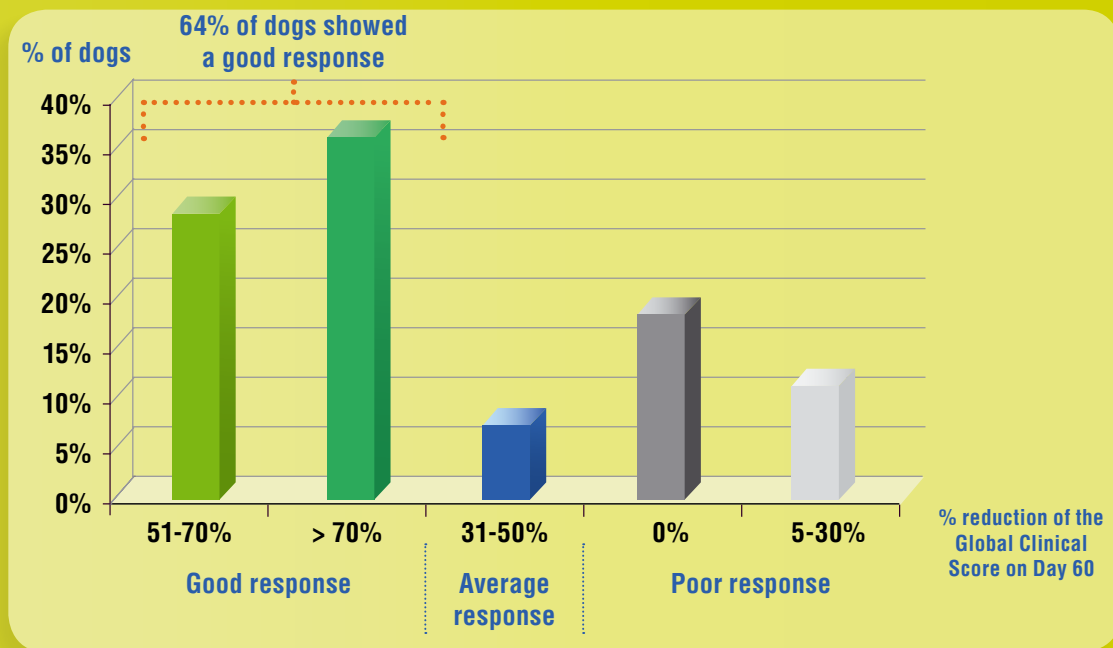
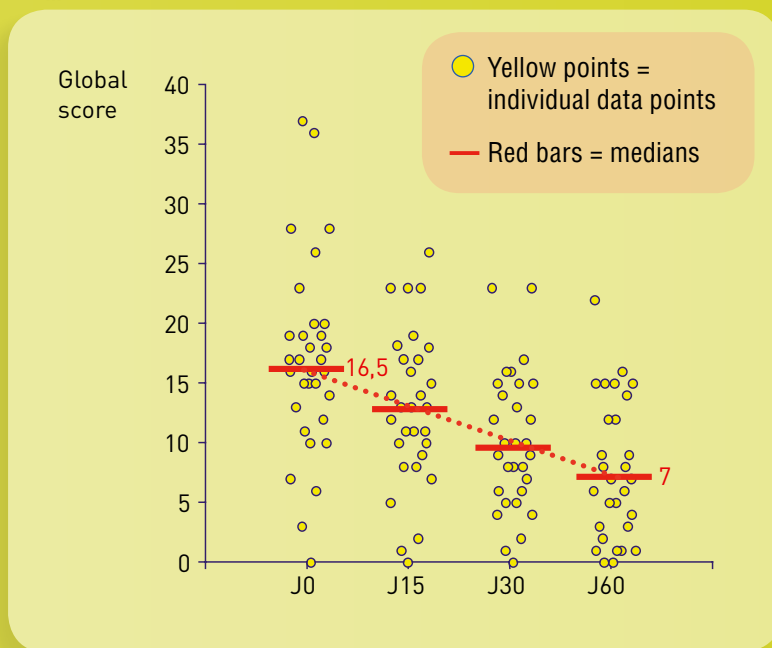
- 32 dogs showing the following clinical signs of anxiety
- Some dogs exhibited multiple signs of anxiety



BEHAVIORAL EXAM GRID	D 0	D 15	D 30	D 60
Autonomic Signs				
Panting	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Shivering	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Mydriasis	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Yawning	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Vomiting	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Hypersalivation	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Fear-induced urination (miction)/defecation	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Behavioral Signs				
Whining, whimpering	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Excessive demand for attention, clinging of the owner	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Aggressive behavior because of irritation and/or fear, growling or even biting	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Aggression directed against furniture	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Emotional state and associated posture				
Inhibition with flattened ears/tail between the legs/ tendency to cringe	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Agitation	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Hypervigilance and hyperaesthesia (jumps at slightest sound, excessive alertness)	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Tendency to panic/run away or hide	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
Inhibition with licking/stereotypical behavior	0-1-2-3	0-1-2-3	0-1-2-3	0-1-2-3
TOTAL				

- Clinical examinations and behavioral evaluations on days 0, 15, 30 and 60
- Twice daily administration for two months

2 out of 3 dogs showed significant improvement



Global reduction in clinical score by 60%

Significant reduction ($P < 0.0001$) in clinical signs associated with fear

- Trembling & Mydriasis
- Hypervigilance
- Inhibition
- Flight & Avoidance

Anxitane was proven to reduce anxiety in dogs

The majority of dogs responded by the second week

A similar study was also performed in cats*

- Anxitane reduced anxiety and cohabitation problems

* Data on file.

ANXITANE[®], A FIRST INTENTION TREATMENT TO BOLSTER YOUR TOOLBOX FOR MANAGING ANXIETIES IN CATS & DOGS

☞ **Significantly reduces stress related reactions**

☞ **No known side effects***

☞ **Does not cause drowsiness***

☞ **No known interactions with other therapeutics**

☞ **Situations where Anxitane could help:**

- Fear on walks, fear of people, fear of other animals
- Anxiety or stress associated with change in family situation or environment (birth, adoption, moving, divorce, death...)
- Episodic fear (grooming, car travel, veterinary visits ...)
- Fear of noises (thunderstorms, fireworks...)



* Data on file.

ANXITANE® IS PARTICULARLY USEFUL FOR LONG TERM USE IN ANXIOUS ANIMALS

Excellent palatability

- Optimizes compliance
- Clinical trials in the field showed 94% spontaneous ingestion in cats and dogs*

Two sizes for easy dosing

- Anxitane S for cats and dogs weighing less than 22 lbs (10 kg)
- Anxitane M, L for dogs weighing 22.1 lbs or more (10.1 kg)

		Administration	
	Cat	Anxitane S	1/2 tablet twice daily
	Dog: less than 22 lbs (10 kg)	Anxitane S	1/2 tablet twice daily
	Dog: 22.1-55 lbs (10-25 kg)	Anxitane M, L	1/2 tablet twice daily
	Dog : Over 55.1 lbs (25 kg)	Anxitane M, L	1 tablet twice daily

Each box contains 30 scored tablets. Minimum course of treatment 2 months.





- Anxitane may be used for the life of the pet

* Data on file.









**ANXITANE[®], FOR DOGS AND CATS
WHO ARE ANXIOUS OR AFRAID OF:**

-  **Car Travel**
-  **Unfamiliar animals or people**
-  **Visits to the veterinarian or groomer**
-  **Thunderstorms, fireworks or other loud noises**

ANXITANE[®] IS CLINICALLY PROVEN TO:

-  **Reduce clinical signs associated with fear and anxiety**

ANXITANE[®] ALSO:

-  **Is a safe non-sedating first intention option**
-  **Has no known side-effects**
-  **Has excellent palatability**
-  **Makes a great addition to your anti-anxiety protocols**



Virbac AH, Inc.
3200 Meacham Blvd
Fort Worth, TX 76137
800-338-3659
virbacvet.com

