Innovative nutrients for cats and dogs behavioral appeasement

\rightarrow What are the Animal Behavior regulation ways?

Cerebral regulation pattern

- Serotonine is a biogenic amine, with an appeasing role in the hormonal mood regulation.
- · Gamma Amino Butyric Acid (GABA) is an important brain appeasing neurotransmitter.
- Noradrenaline is a neurotransmitter with an excitatory post synaptic action and manages vigilance state.
- Acetylcholine is most often excitatory.
- **Dopamine**, another biogenic amine, drives the pleasant feelings.

Pheromonal regulation pattern

- **Pheromones** are volatile chemical messengers responsible for "unconscious" communication among animals.
- They are perceived by the organ of Jacobson.
- They are involved in the facial marking, the urinary marking, and scratching.



→ Nutrition for an appeased behavior



Alpha-casozepine: a milk-derived active biopeptide with apeasing properties, obtained from milk by tryptic hydrolysis⁽¹⁾.



Alpha-casozepine: an appeasing effect on hyperactive dogs and efficient on anxious dogs and cats⁽²⁾.





BIBLIOGRAPHY

(1) Conformation and process of the active biodecapeptide, INGREDIA (62 Arras, France) supplier data file. (2) Beata C et al., 2007 Journal of Veterinary Behavior. (3) Fernstrom JD, Wurtman RJ, 1972 Science.



→ How to understand stress and anxiety in cats and dogs?

Physiological stress

- Reactions allowing a living being to adapt to a new situation (for example moving to a new house, a car journey, meeting another pet...).
- Increases activity in the central nervous system
- · Secretion of hormones (adrenaline, cortisol).

Pathological anxiety

- More sensitive animals do not adapt as well to new situations.
- Not being able to manage a stressful situation is anxiety.
- Generates genuine discomfort (shaking, vocalizations), and physical manifestations (ptyalism, mydriasis, micturition...).

AS EFFICIENT. A	S FAST	AS SEL	EGILINE

	Etec J 0	Etec J 56	Evaluation J 14	Evaluation J 56	
Average	24,6	16,4	2,8	4,8	
α Casozepine	25,0	16,3	2,7	5,3	
Selegilime	24,2	16,6	3,0	5,4	

ETEC Veterinarian evaluation : score significantly improved Mark 0 to 10 Owners evaluation: score significantly improved

L-Tryptophane is a serotonin precursor amino acid leading to appeasement⁽³⁾.



Tryptophan and large neutral amino acids compete to enter the blood brain barrier via the same transporter system.