

**CAPTEX**<sup>®</sup> triglycerides are prepared from high-purity vegetable oil fatty acids. They have been specifically designed for pet food, nutrition, topical, supplement, and pharmaceutical products that require high quality nutritionals, solubilizers, extenders, and carriers. When incorporated into diets, CAPTEX MCTs may provide healthy animal support in several areas: weight wellness, cognition, geriatric support, neonatal support, GI support, energy.

#### References

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## CAPTEX<sup>®</sup> MEDIUM CHAIN TRIGI

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### MEDIUM CHAIN TRIGLYCERIDES FOR COGNITION



**COGNITION,** is a complex notion that includes

- learning and memory
- motor skills
- languageexecutive function
- attention
  spatial abilities

These functions are integral parts of an animal's cognitive process and the improvements in nutrition and veterinary medicine have allowed our companion animals to live longer. Cognitive dysfunction syndrome is used to describe the progressive cognitive decrease that is characterized by a gradual decline in learning, memory, perception, and awareness in animals.<sup>1,2</sup> Using protocols that are designed to assess different cognitive areas, it has been shown that cognitive decline can start as early as 6 years in dogs and in cats, age-related cognitive impairments are noted before the clinical signs of cognitive decline.<sup>2,3</sup> This may suggest a link between cognitive impairment and behavioral changes.<sup>3</sup>

## **Feline Cognitive Decline**

Cats With At Least One Sign Of Cognitive Decline <sup>3.</sup>



# Medium Chain Triglycerides

MCTs are fats composed of fatty acids of 8-10 carbons. These triglycerides are easily digested into fatty acids that are freely absorbed from the intestine into the portal vein for direct access to the liver. In the liver, MCTs are quickly metabolized into ketones that are able to be used as an alternate energy source by the brain.





Dogs fed MCTs performed less errors even with a higher number of distractors as compared to control dogs

## **Canine Cognitive Decline**

#### Dogs With At Least One Sign Of Cognitive Decline <sup>3.</sup>

28% 11-12 years old				
			68% >15 years old	
20 4	0	60	80	100
creased confusion terations in eep-wake cycle		Barks at night for no reason Loss of recognition of familiar people		*
ecreased interac ith humans and her animals	tion	Loss of	housetraining	s S