Nestlé PURINA® Research and Development teams have proven that a patented* blend of nutrients in Age Defence including Medium Chain

MCTs

triglycerides

Triglycerides (MCTs) can dramatically improve cognitive function in older dogs2, help restore declining brain function and help slow further deterioration.

MCTs are converted into aceto-acetate and beta-hydroxybutyrate by the liver: these ketone metabolites are then effectively (and preferentially in the older dog) used by brain neurones as an alternative energy source for cellular function.

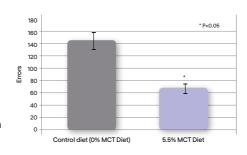
Neurotransmitters increase ATF B-Hydroxybutyrate TCA Cycle Ageing Medium-chain Liver Preferential source of energy Glucose X

MCTs have been demonstrated to help improve cognitive function and mental alertness in senior dogs and have been incorporated at scientifically proven effective levels in the PURINA® PRO PLAN® Small & Mini Adult 9+ and PURINA® PRO PLAN® Medium & Large Adult 7+ products.

A study from Nestlé PURINA® has proven that the Age Defence blend2:

- Helps improve memory and interactivity in older dogs.
- Helps increase the ability of a senior dog to adapt and cope with changes.
- Helps increase a senior dog's attention span and alertness.

DOGS FED MCTs HAD IMPROVED COGNITIVE FUNCTION AS MEASURED DURING MEMORY AND LEARNING TASKS



^{1.} London et al. (1983) Regional cerebral metabolic rate for glucose in Beagle dogs of different ages. Neurobiol Aging. 4(2):121-126.

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^{2.} Pan Y, et al. (2010) Dietary supplementation with medium-chain TAG has long-lasting cognition-enhancing effects in aged dog. Brit J Nutr. 103: 1746-1754.

^{*} Patent pending in Europe.

APPENDIX

SMALL & MINI ADULT 9+ AGE DEFENCE

Complete pet food for small & mini size dogs aged from 9 onwards.





Proven to help support brain function ir ageing dogs



Maintenance diet for senior dogs < 10 kg





3 kg

BENEFITS

KEY NUTRIENTS COMPOSITION



Improves curiosity and responsiveness by supporting cognitive function. Visible results possible in 30 days



Proven to help support brain function and helping to promote interaction with the family.

Medium chain triglycerides from botanical oils provide a readily available source of energy for dogs' ageing brain cells.



Maintains healthy mobility and helps support joint health thanks to EPA, an omega-3 fatty acid, and glucosamine



Formulated to help reduce tartar build-up and total dental care

Contains a calcium chelator proven to reduce tartar accumulation by 36%

COMPOSITION

High quality chicken (including back and chest) (15%), dried poultry protein, wheat, rice (12%), corn, corn protein meal, vegetable oil fractions (5.5%), dried beet pulp, wheat gluten, soya meal, minerals, animal fats, fish oil, digest, yeast.

	KEY I	NUTRIENT VALUES*	
Moisture	8.0%	Calcium	1.28%
Protein	29.0%	Phosphorus	0.93%
Fat - Omega-6 fatty acids - Omega-3 fatty acids - EPA	15.0% 1.5% 0.3% 0.1%	Vitamin A	26262 IU/kg
		Vitamin D ₃	1226 IU/kg
		Vitamin E	561 IU/kg
		Vitamin C	83 mg/kg
Carbohydrate	38.5%	Glucosamine	400 mg/kg
Crude fibre	2.0%	Metabolisable energy (ME) ¹	386kcal/100g

^{*} Typical analysis in the final product as fed. 1 Calculated following NRC 2006 equations.

DAILY FEEDING QUANTITY (ADULT MAINTENANCE FOR DOGS AGED FROM 9 ONWARDS)

(ADDEL MAINTENANDE FOR DOOD ADED FROM 3 CHWARDS)			
Body weight (kg)	<1h activity (g/day)	1 to 3 h activity (g/day)	
1	30	35	
5	90	105	
10	145	170	

FEEDING GUIDELINES