EVERYDAY NUTRITION: SUPERIOR NUTRITIONAL PERFORMANCE TO PROMOTE DOGS' OVERALL HEALTH

PURINA® PRO PLAN® ADULT Everyday Nutrition products are specially formulated to deliver advanced nutrition through higher digestibility and bioavailability of nutrients, thanks to PURINA®'s proprietary cooking and extrusion process.

Protein is required in canine diets to provide all essential amino acids needed and nitrogen for the synthesis of nonessential amino acids and proteins, other nitrogenous compounds, and as a source of energy. An optimal level of bioavailable amino acids from high quality protein sources is essential for dogs to maintain

lean body mass and strengthen muscles, whilst also supporting a healthy skin and coat. A diet rich in high-quality protein also helps support the immune system and the underpinning function of all vital organs.

All products in the PURINA® PRO PLAN® DOG range use a proprietary process to include at least 14% frozen protein sources in their formulas. In the case of Everyday Nutrition products, this source is chicken. The use of high quality chicken in the Everyday Nutrition formulas at optimal levels significantly improves the nutritional quality of the diet leading to lasting health benefits for adult dogs fed this food.

HELPS INCREASE PROTEIN AND FAT DIGESTIBILITY

When comparing dogs fed an otherwise identical diet containing either frozen chicken (FC) or poultry meal (PM) as their only source of animal protein, protein and fat digestibility were significantly better in dogs fed FC¹ compared to the PM diet.

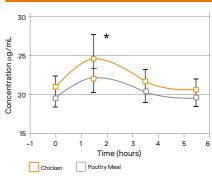
INCREASES THE BIOAVAILABILITY OF AMINO ACIDS

In the same study¹ the dogs fed the diet containing frozen chicken had significantly higher post-prandial blood lysine and arginine levels, indicative of greater bioavailability of these essential amino acids in the FC fed dogs.

BLOOD LYSINE



BLOOD ARGININE



Bouthegourd et al. (2015) PURINA® report on the impact of inclusion of frozen chicken in dog food on digestibility, bioavailability and body weight maintenance. Nestlé Internal Report.

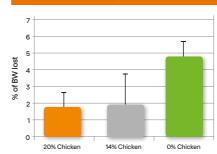
In a second study¹, dogs were fed a 25% protein diet containing either 0% or 14% frozen chicken (with the additional protein being supplied by PM). Uptake of the essential fatty acid linoleic acid was significantly higher in the 14% chicken diet due to a better fatty acid profile of this diet (higher linoleic

acid content).

HELPS DOGS RESPOND BETTER TO ENVIRONMENTAL STRESS

In the same study¹, dogs fed the 14% frozen chicken diet were better able to maintain their body weight in periods of extreme cold weather compared to dogs given a diet containing only PM. This clearly shows the long term health benefit of providing highly bioavailable essential amino acids and fatty acids in the diet of dogs.

BODY WEIGHT LOST



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LARGE ROBUST AND ATHLETIC DOGS: A UNIQUE AND PATENTED* APPROACH TO LARGE BREED NUTRITION

The nutritional needs of large dogs depend on many factors including: their genetic origin, their body morphology and composition, their activity level, and their resting energy expenditure. Large dogs can be divided into two groups, robust and athletic. These two groups share distinct common genetic origins, comparable morphologies and similar metabolic characteristics^{1,3}.

ROBUST DOGS

Generally have similar chest and waist measurements, giving the body a "cylindrical" appearance. They are characterised by higher body fat mass, lower energy requirements per unit of body weight and a propensity to be less active (compared with athletic dogs).

ATHLETIC DOGS

Have a morphology defined by a deep chest and thin abdomen giving the body a "cone-shaped" appearance. They are characterised by higher lean body mass, higher energy requirements per unit of body weight and have a propensity to be more active.



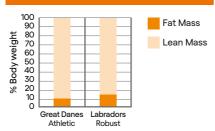


^{*} Patent pending in Europe.

^{1.} Parker et al. (2004) Genetic structure of the purebred domestic dog. Science: 304: 1160-1164.

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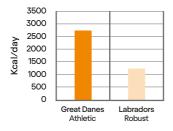


Large athletic dogs have less fat and more lean body mass than large breed robust dogs³.

Conversely, large robust dogs have more fat and less lean body mass than athletic dogs³.

*Note: Labradors have been classified as Robust dogs but individuals do vary. Some Labradors may fall under the category of Athletic, depending on genetics and morphotype.

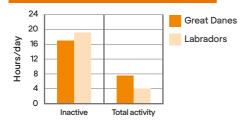
RESTING ENERGY NEEDS OF ROBUST AND ATHLETIC LARGE BREED DOGS



Large athletic dogs expend more energy at rest than large robust dogs⁴.

Even when they are resting, athletic dogs may use up to 57% more kcal/day than robust dogs.

SPONTANEOUS ACTIVITY OF ROBUST AND ATHLETIC LARGE DOGS



Large athletic dogs show a greater level of spontaneous activity compared with large robust dogs⁶.

Athletic dogs are active for up to 40% more time per day than robust dogs.

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^{5.} Perez-Camargo Bouthegourd G, et al. (2012) Patent nº 8,091,509 B2 Method for improving dog food.

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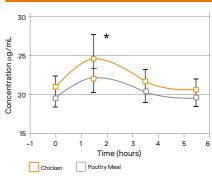
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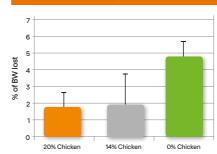
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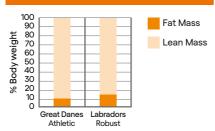


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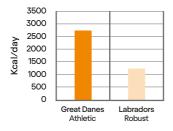


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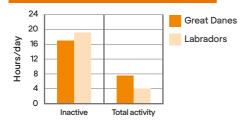
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APPENDIX

LARGE ATHLETIC ADULT EVERYDAY NUTRITION

Complete pet food for large size adult dogs with an athletic physique.



Maintenance diet for large athletic adult dogs > 25 kg



BENEFITS

COMPOSITION KEY NUTRIENTS

Superior nutrient absorption to fulfil your dog's needs

Specially formulated recipe to deliver higher digestibility and bioavailability of nutrients



Helps to keep your dog's coat beautifully shiny from root to tip



Formulated for large breed dogs with an athletic physique to help support healthy joints and an active lifestyle

Omega-3 fatty acids and high protein levels help to support healthy joints



Supports everyday health maintenance

14 kg

COMPOSITION

High quality chicken (including back and chest) (19%), wheat, dried poultry protein, corn, rice (8%), animal fats, soya meal, dried beet pulp, digest, corn protein meal, corn grits, wheat gluten, dried salmon protein, minerals, dried egg, fish oil.

	KEY N
Moisture	8.0%
Protein	28.0%
Fat - Omega-6 fatty acids - Omega-3 fatty acids	18.0% 2.2% 0.3%
Carbohydrate	36.5%
Crude fibre	2.0%
Calcium	1.55%

UV	TRIENT VALUES*	
	Phosphorus	0.95%
	Vitamin A	18322 IU/kg
	Vitamin D ₃	1040 IU/kg
	Vitamin E	475 IU/kg
	Vitamin C	70 mg/kg
	Taurine	1563 mg/kg
	Metabolisable energy (ME) ¹	400kcal/100g

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

FEEDING GUIDELINES

DAILY FEEDING QUANTITY (ADULT MAINTENANCE)			
Body weight (kg)	<1h activity (g/day)	1 to 3 h activity (g/day)	
25	300	345	
35	375	430	
45	445	510	
60	540	620	
70	600	685	
90	710	810	