



Veterinary Staff Information Sheet

Delicate Care™ Adult Dog Food: A Limited Ingredient Diet Formulation:

Delicate Care™ Limited Ingredient Diet (LID) Adult Dog Food is a new formulation representing a major change from Delicate Care™ Regular Energy Diet, while retaining its hypoallergenic theme. Delicate Care™ LID Adult Dog Food has transitioned to a Limited Ingredient Diet, formulated to minimize food allergies and sensitivities while maximizing nutritional value. In dogs that are allergic to chicken or beef in dog foods, switching to a food with a novel protein like duck may help alleviate skin irritation or gastrointestinal upset. Duck meal is the single meat protein in this new Delicate Care™ LID Adult formulation (70% of the protein is supplied from meat). Duck meal supplies high quality protein to maintain digestibility and availability of the key amino acid nutrients balanced for both essential (and non-essential) amino acids, which is required for protein synthesis to sustain strong muscles and general tissue structure and function. Moreover, chick peas plus the essential amino acids, L-lysine and DL-methionine have been added to Delicate Care™ LID Adult Dog Food to ensure the optimum supply of amino acid building blocks for proteins. As an additional nutritional feature, Delicate Care™ LID Adult Dog Food contains taurine to supplement both the supply of taurine in duck meal, and to compensate for any lack of taurine from the chick peas.

Delicate Care™ LID Adult Dog Food contains an overall protein concentration of 24% DM which provides a safe excess above the AAFCO minimum for adult dogs of 18% DM without extending the protein content to levels that may challenge the systems for nitrogen disposal.

Another major difference in the Delicate Care™ LID Adult Dog Food formulation is the use of sorghum rather than rice as the carbohydrate source. Sorghum is gluten-free, and importantly for long-term feeding, it is a low GI carbohydrate source supplying a steady, sustained release of glucose for energy. Delicate Care™ LID Adult Dog Food may therefore assist in stabilising glucose supply in dogs being treated for type II diabetes.

Delicate Care™ LID Adult Dog Food contains 12% DM crude fat compared with a 5.5% minimum crude fat (AAFCO) for maintenance in adult dogs. Again, this represents a safe concentration above this minimum to allow a balanced protein: energy ratio for optimum utilisation of amino acids for protein synthesis. Delicate Care™ LID Adult Dog Food has an omega6: omega 3 ratio of less than 3:1 with 1% EPA+DHA which is more than an order of magnitude greater than the requirement for growth and reproduction, let alone the amount needed for adult maintenance which is, as yet, not determined by AAFCO. These quantities of omega-3 essential fatty acids and in particular the percentage of EPA and DHA assist with anti-inflammatory balance during the life of an adult dog. The DHA (C22:6 n-3) essential fatty acid is important in maintaining structure and function of neurones as a dog ages. In addition to DHA, Delicate Care™ LID Adult Dog Food contains a safe level of the major omega-3 essential fatty acid, EPA which is the precursor of the anti-inflammatory 3- and 5-series eicosanoids so necessary for maintenance of skin and coat condition.



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Delicate Care™ LID Adult Dog Food now also contains natural antioxidants from blueberries and turmeric for protection against free radical damage. The flavonoid antioxidants in blueberries and the curcumin in turmeric are prophylactic rather than therapeutic in action. Therefore, the sustained supply available to dogs being fed Delicate Care™ LID Adult Dog Food ensures the long-term protection against potential free radical damage during respiration and DNA replication. In addition to these plant antioxidants, Delicate Care™ Adult Dog Food is boosted with selenium and vitamin E, two powerful antioxidant nutrients that protect against free radical damage to cell membranes.

Delicate Care™ Adult Dog Food is formulated specifically to enhance the functions of the gut microbiome. The gut microbiome has an important role in canine health, and there is increasing interest in utilizing dietary approaches to modulate the composition and metabolic function of the microbial communities that colonize the gastrointestinal tract to improve health, and prevent or treat disease. Delicate Care™ LID Adult Dog Food uses dietary fibre, prebiotics and probiotics as the dietary strategy for modulating the microbiome. Recent research (S. Schmitz and J. Suchodolski (2016) Understanding the canine intestinal microbiota and its modification by pro-, pre- and synbiotics Veterinary Medicine and Science 2: 71–94.) has established the importance of the gut microbiome in enhancing immunity and ensuring gut integrity and metabolism. The concept of the microbiome was first suggested by Joshua Lederberg, who coined the term 'microbiome' to 'signify the ecological community of commensal, symbiotic and pathogenic microorganisms that literally share our body space' (Lederberg & McCray (2001) 'Ome Sweet 'Omics – A Genealogical Treasury of Words. Scientist Inc.: Philadelphia, PA, 15: 8.). Delicate Care LID Adult Dog Food contains several different sources of soluble fibre such as chick peas and sugarbeet pulp, and combinations of soluble and insoluble fibre in oat bran, the prebiotics FOS, MOS and probiotics such as *Bacillus subtilis*. The canine alimentary enzymes are not able to digest most complex carbohydrates and plant polysaccharides present in fibre and prebiotics. Instead, these polysaccharides and oligosaccharides are metabolized by microbes in the lower gut which generate short-chain fatty acids (SCFAs), including acetate, propionate, and butyrate. The SCFAs act as energy substrates for colonic cells enhancing their functions in water balance and immunity from exo- and endotoxins. The fibre balance in Delicate Care™ LID Adult Dog Food can sustain and support the gut microbiome in adult dogs to maintain a healthy weight and enhance their immune function and ecological balance.

Delicate Care™ LID Adult Dog Food is a completely natural food for dogs, free of all artificial colourings and flavourings, GMO free and sourced from sustainable supply chains. Delicate Care™ LID Adult Dog Food is highly palatable and comes with a palatability guarantee. Most dogs should transition from Delicate Care™ All Breed Puppy Food to Delicate Care™ Adult Food with relative ease.

Premium Ingredients:

Sorghum, Duck Meal, Chick Peas, Tallow, Sugar Beet Pulp, Natural Flavours, Omega Magic™ Essential Oil Blend, Potassium Chloride, Choline Chloride, Blueberries, Turmeric, FOS (Fructo-Oligo-Saccharides), *Bacillus subtilis*, L-Lysine, MOS (Manno-Oligo-Saccharides), DL-Methionine, *Yucca schidigera* Extract, Vitamins A D3 E K3 B1 B2 B3 B5 B6 B12, Folic Acid, Biotin, Copper (from Sulphate), Copper Chelate, Zinc (from Sulphate), Zinc Chelate, Manganese (from Oxide), Manganese Chelate, Iron (from Sulphate), Iron Chelate, Selenium, and Iodine. Product protected by natural mixed tocopherols and rosemary extract.

**No salt (sodium chloride) is added to Delicate Care™ formulations. Salt, if present in our formulations, is naturally occurring.*



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Nutritional Analysis:

Protein	24% min
Fat	12% min
Linoleic Acid:	1.6% min
Linolenic Acid:	0.2% min
Omega-6:Omega-3 ratio:	8.0:1.0
EPA+DHA:	0.05 min
Calcium:	1.3 max
Ca:P ratio	1.1:1.0
Fibre	6% max
Moisture	10% max
Metabolizable Energy	355kcal/100gms as fed

DOES NOT CONTAIN

Common Allergens derived from Beef, Chicken, Wheat, Corn, Soy, Dairy.
Artificial colours, flavours or preservatives
BHT, BHA, or Ethoxyquin

Suggested Feeding Guide for Delicate Care Adult Dog Food

Medium Activity (≥ 2x30
minute walk per day)

LW			DER	Daily
kg	kg 0.75	K	Cals	Amount (g)
2	1.7	105	177	50
4	2.8	105	297	85
6	3.8	105	403	115
10	5.6	105	590	169
15	7.6	105	800	229
20	9.5	105	993	284
25	11.2	105	1174	335
30	12.8	105	1346	385
35	14.4	105	1511	432
40	15.9	105	1670	477
50	18.8	105	1974	564
60	21.6	105	2264	647
70	24.2	105	2541	726
80	26.7	105	2809	802
90	29.2	105	3068	877
100	31.6	105	3320	949



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We have worked with the feeding equation:

$$\text{Daily Energy Requirement (DER) cal/day} = K \times \text{LW}^{0.75} \text{ (kg)}$$

The constant K chosen for this calculation is 105 compared with K=70 for resting energy requirement in adult dogs and 126 for active, intact adult dogs. The above feeding guide assumes that the dogs are taken for 2x30minute walks per day. However, individual pet needs can vary by as much as 50% from calculated values. This feeding guide should be seen only as a starting point for estimating the amount of food to be provided daily. The amount should then be adjusted up or down as needed to maintain a healthy body condition score estimated either by yourself during regular visits by the dog to your clinic or by the owner trained to assess a 5- or 10-point scale of body condition score.



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