



## Veterinary Staff Information Sheet

### **Delicate Care™ Limited Ingredient Weight Management Dog Food**

Delicate Care™ Limited Ingredient Diet (LID) Weight Management Dog Food is a new formulation representing a major change from Delicate Care™ Lite Energy Diet, while retaining its hypoallergenic theme. Significantly, Delicate Care™ LID Weight Management Dog Food is now part of the Special Care range of Delicate Care™ foods.

Delicate Care™ LID Weight Management Dog Food is now truly a multifunctional special care food for dogs that are required to control their weight as part of a veterinary prescribed program. Firstly, Delicate Care™ LID Weight Management Dog Food is 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 lamb may help alleviate skin irritation or gastrointestinal upset. Lamb meal is the single meat protein in this new Delicate Care™ LID Weight Management formulation (more than 60% of total protein is supplied from lamb). High quality lamb meal maintains 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 Weight Management Dog Food to ensure the optimum supply of amino acid building blocks for proteins. As an additional nutritional feature, Delicate Care™ LID Weight Management Dog Food contains taurine to supplement both the supply of taurine in lamb meal, and to compensate for any lack of taurine from the chick peas. The overall protein content of Delicate Care™ Limited Ingredient Weight Management Dog Food is 22% DM which is safely in excess of the minimum AAFCO requirement of 18% DM for protein for adult dogs. This level of protein of 22% DM may assist in sustaining the systems for nitrogen disposal in older dogs.

Whole grain sorghum rather than rice is the major carbohydrate source in Delicate Care™ LID Weight Management Dog Food. Sorghum is gluten-free, and importantly for long-term feeding, sorghum is a low GI carbohydrate source enabling a steady, sustained release of glucose for energy. Moreover, low GI carbohydrate sources like sorghum have been shown to promote the release a glucagon-like peptide (GLP-1) in the stomach which helps with a feeling of fullness and satiety – another factor in the weight management properties of Delicate Care™ LID Weight Management Dog Food. Another consequence of the use of sorghum in Delicate Care™ LID Weight Management Dog Food is assisting with glycaemic control to stabilise glucose supply in overweight dogs especially in those dogs also being treated for type II diabetes.

The unique feature of Delicate Care™ LID Weight Management Dog Food is its ketogenic capacity. The lipids in Delicate Care™ LID Weight Management Dog Food include medium chain fatty acids (MCFAs) from sustainably sourced coconut oils. MCFAs are not stored in the body (assisting with weight management) and do not require carnitine for their beta-oxidation. In fact, medium chain fatty acids are readily converted to ketones such as  $\beta$ -hydroxybutyrate by the liver in overweight dogs.  $\beta$ -



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Hydroxybutyrate is the preferred energy substrate for heart and muscle tissues and is completely oxidised for energy by those tissues. Delicate Care™ LID Weight Management Dog Food also contains L-carnitine to augment ketogenesis in the liver by carnitine-dependent  $\beta$ -oxidation of fatty acids of 16 and 18-carbon length through the carnitine palmitoyl transferase I (CPT1) enzyme. L-Carnitine also assists with oxidation of long chain fatty acids in muscle and heart. Both actions of L-carnitine will assist in clearing those lipids mobilised from adipose tissue during weight loss.

In addition to the MCFA content and carnitine dependent fatty acid oxidation, Delicate Care™ LID Weight Management Dog Food also contains appropriate levels of omega-6 and omega-3 essential fatty acids to assist with skin and coat condition while dogs are undergoing weight management. The anti-inflammatory action of omega-3 EFAs such as EPA is maintained at optimised levels to ensure the action of anti-inflammatory eicosanoids in protecting against skin allergies and gut sensitivities. The overall fat content of Delicate Care™ Limited Ingredient Weight Management Dog Food is a relatively low 8% DM, enough to ensure the metabolic and structural functions of lipids but not so high as to present ongoing issues with weight management. Moreover, Delicate Care™ LID Weight Management Dog Food contains the essential fatty acids (EFAs) of the omega-6 and omega-3 families at levels safely above AAFCO minimum requirements and in a balanced ratio of less than 5.0:1.0. Omega-3 EFAs such as EPA act as precursors of the anti-inflammatory eicosanoids that provide the overall balanced ratio of pro- and anti-inflammatory eicosanoids so necessary for regulation of metabolic functions and enhanced skin and coat condition. Delicate Care™ LID Weight Management Dog Food should also assist with the management of conditions that are sensitive to the overall lipid intake such as pancreatitis.

Delicate Care™ LID Weight Management Dog Food 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 Weight Management 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™ LID Weight Management Dog Food is boosted with selenium and vitamin E, two powerful antioxidants nutrients that protect against free radical damage to cell membranes.

Delicate Care™ LID Weight Management 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 to prevent or treat disease. Delicate Care™ LID Weight Management 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 Weight Management 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



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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 Weight Management Dog Food can sustain and support the gut microbiome in adult dogs undergoing weight management thereby enhancing their immune function and ecological balance.

Delicate Care™ LID Weight Management 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 Weight Management Dog Food is highly palatable and comes with a palatability guarantee. Most dogs should be able to transition to Delicate Care™ LID Weight Management Dog Food from other dog foods including Delicate Care™ Adult Dog Food with relative ease.

### Premium Ingredients:

Sorghum, Lamb Meal, Chick Peas, Sugar Beet Pulp, Super Oat Bran, Natural Flavours, Medium Chain Triglycerides, Omega Magic™ Essential Oil Blend, Choline Chloride, Potassium Chloride, Turmeric, FOS (Fructo-Oligo-Saccharides), *Bacillus subtilis*, L-Lysine, MOS (Manno-Oligo-Saccharides), DL-Methionine, L-Carnitine, 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.*

### Nutritional Analysis:

Protein	22% min
Fat	8% min
Linoleic Acid:	1.6% min
Linolenic Acid	0.2% min
Omega-6:Omega-3 ratio:	8.0:1.0
EPA+DHA:	0.03% min
Calcium:	2.5% max
Fibre	8% max
Calcium	2.5% max
Moisture	10% max
Metabolizable Energy	320kcal/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



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Suggested Feeding Guide for Delicate Care™ LID Weight Management Dog Food						
LW	LW 0.75	K	DER	Daily Feed	Daily Feed	Cups per day
(kg)	(kg)		Cal/day	(Cals/day)	(g/day)	115g /cup
2	1.68	95	160	136	42	0.4
5	3.34	95	318	270	84	0.7
8	4.76	95	452	384	120	1.0
10	5.62	95	534	454	142	1.2
12	6.45	95	613	521	163	1.4
15	7.62	95	724	615	192	1.7
20	9.46	95	898	764	239	2.1
25	11.18	95	1062	903	282	2.5
30	12.82	95	1218	1035	323	2.8
35	14.39	95	1367	1162	363	3.2
40	15.91	95	1511	1284	401	3.5
45	17.37	95	1651	1403	438	3.8
50	18.80	95	1786	1518	474	4.1
55	20.20	95	1919	1631	510	4.4
60	21.56	95	2048	1741	544	4.7
70	24.20	95	2299	1954	611	5.3
80	26.75	95	2541	2160	675	5.9
90	29.22	95	2776	2360	737	6.4
100	31.62	95	3004	2554	798	6.9

Please note that 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 95 compared with K=70 for resting energy requirement in adult dogs and 126 for active, intact adult dogs. However, individual pet needs can vary by as much as 50% from calculated values. This feeding guide is also based on dogs being taken for a 30-minute walk per day as part of their weight management program. It 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. During weight loss/management regular monitoring of body weight and body condition score is a crucial contributor to the success of the weight management outcome. So regular visits to the veterinarian are an important part of the overall weight management program.

## Proudly Australian Made and Owned



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