



SUMMARY

ROYAL CANIN Veterinary Diet™^{TM/MC} canine DIABETIC HF 18™^{TM/MC} is a complete dog food suitable for adult dogs. This product contains elevated levels of dietary fiber and a restricted fat content.

INDICATIONS

- For the dietary management of diabetes mellitus in dogs
- For the management of fiber-responsive diseases in dogs including:
 - Constipation
 - Certain large bowel diarrheas, including diarrhea due to *Clostridium perfringens* infection
 - Certain gastric motility disorders

CONTRAINDICATIONS

- Growing puppies
- Pregnant or lactating bitches
- Dogs with impaired exocrine pancreatic function

NUTRITIONAL DIFFERENCES

(as compared to typical commercial pet foods)

- Elevated levels of dietary fiber
 - Inclusion of both viscous soluble and insoluble fiber at a ratio appropriate for modulating glycemic response (1:4)
 - Insoluble fiber content much lower than many high fiber diets
- Restricted fat content
- Enhanced vitamin and mineral content
- Enriched with antioxidants
- High palatability and digestibility



RATIONALE

Diabetes Mellitus

Diabetes mellitus is an endocrine disorder characterized by one or more of the following: inadequate insulin production, target tissue insensitivity, and/or insulin transport failure.

The current recommendation for the dietary management of diabetic dogs is to provide a diet high in complex carbohydrates (starch and fiber), restricted fat, and no simple sugars (i.e., sucrose). Dietary fiber slows the rate of digestion in the small intestine resulting in a slower release of nutrients into the dog's circulation. In this way, dietary fiber helps moderate the post-prandial glycemic response in diabetic dogs. For optimal benefit, a combination of insoluble and soluble fibers is recommended. Since viscous fibers are more potent in their actions than insoluble fiber, they are needed at lower levels in the diet. Clinical studies show that DIABETIC HF 18^{TM/MC} significantly reduces the degree of fluctuation of blood glucose concentrations in diabetic dogs resulting in a smoother, more predictable post-prandial glycemic curve.

Constipation

Diets high in dietary fiber may help prevent constipation. Insoluble fiber increases fecal bulk which helps stretch colonic muscles, promoting more forceful contractions and better colonic motility. Soluble fiber contributes to fecal bulk and has water-binding properties to help soften stools.

Clostridium Overgrowth and Large Bowel Diarrheas

Insoluble and soluble dietary fiber may be beneficial in the symptomatic treatment of certain large bowel diarrheas since fiber helps to normalize transit time and increase fecal water content. In addition, fiber can act as a substrate for the microorganisms present in the colon leading to the production of short chain fatty acids (SCFA). SCFA have three effects:

1. They are absorbed from the colon and provide a significant source of nutrition for colonocytes.
2. They acidify the colonic environment inhibiting the growth of *Clostridium perfringens*.
3. Their osmotic potential draws water into the stool increasing fecal bulk and water-holding capacity.

Other Applications

High fiber intake may be helpful in the management of certain motility disorders, such as gastric dumping (i.e., unusually rapid gastric transit).

DIABETIC HF 18^{TM/MC} contains elevated levels of complex carbohydrates and soluble and insoluble fibers to help moderate the glycemic response in diabetic dogs. While this diet contains higher levels of fiber than other diets in the ROYAL CANIN Veterinary Diet^{TM/MC} range, it contains considerably less insoluble fiber than other high fiber diets. The levels of fiber present in this diet have been clinically proven to be appropriate for managing diabetes mellitus. The negative side effects associated with diets very high in insoluble fiber, such as increased stool volume, are not typically encountered with this diet.

Special Tips

- High fiber diets are not always the best option for managing diarrhea in dogs.
- Many cases of idiopathic large bowel diarrhea, including cases of idiopathic chronic colitis, are best managed with a limited antigen diet such as ROYAL CANIN Veterinary Diet^{TM/MC} canine SENSITIVITY RC^{TM/MC} (canned), SENSITIVITY LR 21^{TM/MC} (dry), or HYPOALLERGENIC HP 19^{TM/MC} (dry).
- Most cases of small bowel diarrhea are best managed with a low fat, low residue diet such as ROYAL CANIN Veterinary Diet^{TM/MC} canine LOW FAT LF^{TM/MC} (canned) or LOW FAT LF 20^{TM/MC} (dry).

GENERAL FEEDING RECOMMENDATIONS

- Daily feeding recommendations may be divided into two to four meals.
- Fresh water should be available at all times.
- Individual requirements may vary depending on breed, age, sex, environment, and activity level.
- ROYAL CANIN Veterinary Diet^{TM/MC} canine DIABETIC HF 18^{TM/MC} should be fed exclusively unless otherwise directed by your veterinarian.

FEEDING GUIDE

FEEDING RECOMMENDATIONS FOR ADULT DOGS

Body Weight		Suggested Caloric Intake kcal/day	Daily Feeding
lb	kg		Dry Only (8-oz cups/day)
5	2.3	231	1 1/4
10	4.5	389	2
20	9.1	653	3 1/2
30	13.6	886	4 3/4
40	18.1	1099	6
50	22.7	1299	7
60	27.2	1489	8
70	31.8	1672	9
80	36.3	1848	10
90	40.8	2019	11
100	45.4	2185	11 3/4
110	49.9	2347	12 2/3
120	54.4	2505	13 1/2
130	59.0	2660	14 1/3
140	63.5	2812	15 1/4
150	68.0	2961	16

PRODUCT DESCRIPTION

ROYAL CANIN Veterinary Diet™/MC canine DIABETIC HF 18™/MC is a complete, balanced food suitable for adult dogs. The product contains high levels of dietary fiber, is free of simple sugars, and has a restricted fat content. The formulation of this diet targets a ratio of soluble to insoluble fiber of 1:4.

NUTRITION STATEMENT

DIABETIC HF 18™/MC is formulated to meet the nutritional levels established by the AAFCO Dog Food Nutrient Profiles for maintenance.



The combination of cereals with low glycemic index (barley, corn), and the gelling action of psyllium mucilages reduces postprandial hyperglycemia.



Moderate dietary fat to reduce the risk of hyperlipidemia and pancreatitis in the diabetic patient.



A combination of soluble and insoluble fiber to moderate the post-prandial glycemic response.



Naturally preserved with mixed tocopherols, rosemary extract, and citric acid.

GUARANTEED ANALYSIS

Crude Protein, (min)	18%
Crude Fat, (min)	7%
Crude Fiber, (max)	13%
Moisture, (max)	10.5%

METABOLIZABLE ENERGY

From Protein	23.2%
From Fat	25.4%
From Carbohydrate	51.4%

Approximately 185 kcal per 8-oz cup; 301 kcal per 100 g; 62 g per 8-oz cup.

INGREDIENTS

RICE, GROUND CORN, CHICKEN MEAL, CELLULOSE POWDER, CORN GLUTEN MEAL, GROUND WHEAT, CHICKEN FAT, NATURAL FLAVORS, RICE HULLS, DICALCIUM PHOSPHATE, POTASSIUM CHLORIDE, VEGETABLE OIL, GUAR GUM, CHOLINE CHLORIDE, MONOSODIUM PHOSPHATE, SODIUM CHLORIDE, TAURINE*, VITAMINS [DL-ALPHA TOCOPHEROL ACETATE (SOURCE OF VITAMIN E), BIOTIN, D-CALCIUM PANTOTHENATE, NIACIN, PYRIDOXINE HYDROCHLORIDE (VITAMIN B6), VITAMIN A ACETATE, VITAMIN D3 SUPPLEMENT, THIAMINE MONONITRATE (VITAMIN B1), VITAMIN B12 SUPPLEMENT, RIBOFLAVIN (VITAMIN B2), FOLIC ACID], TRACE MINERALS [ZINC OXIDE, FERROUS SULFATE, COPPER SULFATE, MANGANOUS OXIDE, SODIUM SELENITE, CALCIUM IODATE], PRESERVED WITH NATURAL MIXED TOCOPHEROLS, ROSEMARY EXTRACT, AND CITRIC ACID .

*Not recognized as an essential nutrient by the AAFCO Dog Food Nutrient Profiles.



CANINE

TYPICAL ANALYSIS

Nutrient	Unit	Per 100 g as fed	Per 1000 kcal
Moisture	g	9	
Protein	g	20.0	66.4
Fat	g	9.0	29.9
Carbohydrate	g	44.2	146.7
Ash	g	6.8	22.6
Crude Fiber	g	11.0	36.5
Total Dietary Fiber	g	18.0	59.8
Minerals			
Calcium	g	1.10	3.65
Phosphorus	g	0.90	2.99
Sodium	g	0.25	0.83
Chloride	g	0.80	2.66
Potassium	g	0.80	2.66
Magnesium	g	0.07	0.23
Copper	mg	3.2	10.6
Iron	mg	12.0	39.8
Zinc	mg	24.0	79.7
Manganese	mg	7.0	23.2
Iodine	mg	0.47	1.56
Selenium	mg	0.034	0.113
Vitamins			
Vitamin A	IU	1800	5976
Vitamin D3	IU	150	498
Vitamin E	mg	31	103
Thiamine (B1)	mg	0.5	1.7
Riboflavin (B2)	mg	0.4	1.3
Niacin	mg	1.5	5.0
Pyridoxine (B6)	mg	0.9	3.0
Pantothenic Acid	mg	3.5	11.6
Folic Acid	mg	0.9	3.0
Cobalamin (B12)	mg	0.007	0.023
Biotin	mg	0.30	1.00
Choline	mg	300	996
Fatty Acids			
Linoleic acid	g	2.5	8.3
Arachidonic acid	g	0.03	0.10
Amino Acids			
Arginine	g	1.1	3.7
Lysine	g	0.75	2.5
Methionine	g	0.45	1.5
Methionine + Cystine	g	0.75	2.5
Taurine	g	0.1	0.3



ORDERING INFORMATION

Bag Size	Weight		Item Code
	lb	kg	
Small	2	0.91	27402
Medium	n/a	n/a	n/a
Large	15	6.81	27415
Extra Large	n/a	n/a	n/a

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