



**Indications:**

- Dogs with or at risk of developing canine lower urinary tract disease
- Dissolution of pure struvite uroliths
- To help prevent struvite urolithiasis
- To help prevent calcium oxalate urolithiasis
- To help prevent calcium phosphate (brushite) urolithiasis

**Contraindications:**

- Growth
- Pregnancy, lactation
- Dogs with pancreatitis or hypertriglyceridemia
- Concurrent use of urinary acidifiers

**Nutritional Differences:**



**Relative Super Saturation:**

Relative Super Saturation (RSS) methodology predicts the crystallization potential of urine; RSS is used to develop diets that control both struvite and calcium oxalate urolithiasis



**Struvite Dissolution:**

Effectively dissolves pure struvite uroliths



**Urine Dilution:**

Increasing the urine volume simultaneously reduces the saturation of urine with calcium oxalate and struvite, preventing the two major types of urolithiasis



**Natural Preservative:**

Naturally preserved to ensure freshness and quality

**Additional Differences:**

- Promotes the production of urine undersaturated (RSS < 1) for struvite
- Promotes the production of urine metastable (RSS < 5) for calcium oxalate
- Moderate acid load to encourage the production of urine with a pH between 5.5 and 6.0
- Formulated to promote increased urine volume and body water turnover
  - High moisture content in canned format
  - Increased sodium chloride content
- Moderately restricted magnesium levels
- Controlled levels of calcium and oxalate
- Moderately restricted phosphorus and protein content
- Enriched with eicosapentaenoic and docosahexaenoic acids (EPA and DHA), long chain omega-3 fatty acids that modulate inflammatory reactions
- Enriched with antioxidants to help maintain a healthy immune system and to reduce DNA damage associated with aging

**Notes:**

- As a result of increased thirst, dogs will need liberal access to water and increased access to areas to facilitate urination
- For best efficacy, giving treats or mixing can and dry formulas is discouraged

**Feeding Recommendations for Canine Adult Maintenance:**

Body Weight		Suggested Caloric Intake	Daily Feeding			
lb	kg		Kcal per day	Grams per day	Cups per day	Grams per day
5	2.3	240	62	3/4	173	1/2
10	4.5	398	103	1 1/3	286	3/4
20	9.1	660	171	2 1/3	475	1 1/4
30	13.6	888	230	3 1/4	639	1 2/3
40	18.1	1095	284	3 3/4	788	2
50	22.7	1289	334	4 1/2	927	2 1/3
60	27.2	1472	381	5 1/4	1059	2 3/4
70	31.8	1648	427	5 3/4	1185	3
80	36.3	1816	470	6 1/3	1307	3 1/3
90	40.8	1979	513	7	1424	3 2/3

Body Weight		Suggested Caloric Intake	Daily Feeding			
lb	kg		Kcal per day	Grams per day	Cups per day	Grams per day
(continued)						
100	45.4	2138	554	7 1/2	1538	4
110	49.9	2292	593	8	1649	4 1/4
120	54.4	2442	632	8 2/3	1757	4 1/2
130	59.0	2589	670	9	1862	4 3/4
140	63.5	2733	708	9 2/3	1966	5
150	68.0	2874	744	10 1/4	2068	5 1/3
160	72.6	3013	780	10 2/3	2167	5 2/3
170	77.1	3149	815	11	2265	6
180	81.6	3283	850	11 1/2	2362	6 1/4

**Typical Analysis:**

Nutrient	Unit	Dry per 1000 Kcal	Can per 1000 Kcal
Protein	g	40.1	40.3
Fat	g	40.1	63.3
Crude Fiber	g	5.4	3.6
Total Dietary Fiber	g	17.6	18.1
Carbohydrate	g	130.0	77.7
Calcium	g	1.9	1.9
Phosphorus	g	1.5	2.0
Sodium	g	3.3	2.6
Chloride	g	5.9	3.5
Potassium	g	2.3	2.1
Magnesium	g	0.2	0.2
Iron	mg	21.5	63.3
Copper	mg	8.5	3.2
Manganese	mg	20.5	4.1
Zinc	mg	64.7	48.9
Iodine	mg	1.1	0.6
Selenium	mg	0.05	0.13
Vitamin A	IU	5696	20934
Vitamin D3	IU	259	302
Vitamin E	IU	181	158
Vitamin C	mg	0	0
Thiamine (B1)	mg	2.5	2.0
Riboflavin (B2)	mg	1.6	4.1
Pantothenic Acid	mg	12.2	11.7
Niacin	mg	4.4	28.0
Pyridoxine (B6)	mg	8.3	2.0
Folic Acid	mg	3.0	0.4
Biotin	mg	0.8	0.2
Cobalamin (B12)	mg	0.02	0.02
Choline	mg	518	806
Omega-6 Fatty Acid	g	8.73	13.44
Omega-3 Fatty Acid	g	1.04	3.66
EPA	g	0.36	1.64
DHA	g	0.16	0.82
Linoleic Acid	g	8.3	12.1
Arachidonic Acid	g	0.1	0.6
Taurine	g	0.5	1.5
Arginine	g	2.7	2.0
Histidine	g	0.9	0.9
Isoleucine	g	1.7	1.4
Leucine	g	3.9	3.2
Lysine	g	1.7	1.7
Methionine	g	1.0	2.1
Phenylalanine	g	2.0	1.5
Tyrosine	g	1.8	1.2
Threonine	g	1.6	1.4
Tryptophan	g	0.5	0.3
Valine	g	2.2	1.9



Available in a 5.5 lb, 16.5 lb, and 32 lb bag, and a 13.6 oz can.

Guaranteed Analysis:		Dry	Can
Protein	% Min	14.0	4.5
Fat	% Min	14.0	7.0
Fiber	% Max	4.1	1.2
Moisture	% Max	10.0	76.0

Metabolizable Energy:		Dry	Can
Kcal per kg diet		3862	1390
Grams per 8 oz cup or can		73	385
Kcal per cup or can		284	535
% ME Protein		18.7	15.5
% ME Fat		33.2	54.7
% ME Carbohydrate		48.1	29.8

**Ingredients:**

**ROYAL CANIN Veterinary Diet® canine URINARY SO® 14 dry**

Rice, ground corn, chicken fat, chicken meal, natural flavors, corn gluten meal, dried egg product, salt, powdered cellulose, potassium chloride, fish oil, monocalcium phosphate, calcium carbonate, calcium sulfate, taurine, choline chloride, Vitamins [DL-alpha tocopherol acetate (source of vitamin E), biotin, D-calcium pantothenate, pyridoxine hydrochloride (vitamin B6), vitamin A acetate, niacin supplement, thiamine mononitrate (vitamin B1), riboflavin supplement (vitamin B2), folic acid, vitamin B12 supplement, vitamin D3 supplement], marigold extract (*Tagetes erecta* L.), Trace Minerals [zinc oxide, ferrous sulfate, zinc proteinate, manganese proteinate, copper sulfate, manganous oxide, copper proteinate, calcium iodate, sodium selenite], rosemary extract, preserved with natural mixed tocopherols and citric acid.

**ROYAL CANIN Veterinary Diet® canine URINARY SO® can**

Water sufficient for processing, pork by-products, corn grits, chicken by-products, vegetable oil, fish oil, powdered cellulose, natural flavors, sodium tripolyphosphate, salt, calcium carbonate, dicalcium phosphate, potassium chloride, guar gum, carob gum, carrageenan, taurine, calcium sulfate, choline chloride, Vitamins [DL-alpha tocopherol acetate (source of vitamin E), biotin, thiamine mononitrate (vitamin B1), niacin supplement, D-calcium pantothenate, riboflavin supplement (vitamin B2), pyridoxine hydrochloride (vitamin B6), vitamin B12 supplement, folic acid, vitamin D3 supplement], Trace Minerals [zinc oxide, iron sulfate, zinc proteinate, copper sulfate, manganous oxide, sodium selenite, calcium iodate], magnesium oxide, marigold extract (*Tagetes erecta* L.).

**Nutrition Statement:**

Animal feeding tests using AAFCO procedures substantiate that canine URINARY SO® 14 dry diet provides complete and balanced nutrition for adult maintenance. Canine URINARY SO® can diet is formulated to meet the nutritional levels established by the AAFCO Dog Food Nutrient Profiles for adult maintenance.