

## SUMMARY

ROYAL CANIN Veterinary Diet™/MC canine MOBILITY SUPPORT JS 21™/MC is formulated for the adult dog and contains a unique ingredient, Green-Lipped Mussel Powder (*Perna canaliculus*), to help promote joint health. This food has been manufactured with a patented process to ensure the efficacy of this ingredient.

## INDICATIONS

- For adult dogs with degenerative joint disease (osteoarthritis)
- For dogs at risk of developing degenerative joint disease
- Risk factors include:
  - Obesity
  - Advanced age
  - Very active lifestyle (i.e., working dogs, hunting dogs)
  - Large and giant breeds
  - History of joint injury or trauma
  - Genetic pre-disposition

## CONTRAINDICATIONS

- Growing puppies
- Pregnant or lactating bitches

## NUTRITIONAL DIFFERENCES

(as compared to typical commercial pet foods)

- Contains Green-Lipped Mussel Powder (GLMP) which is a source of:
  - Anti-inflammatory fatty acids, such as eicosatetraenoic acid (ETA), eicosapentaenoic acid (EPA), and docosahexaenoic acid (DHA)
  - Glycosaminoglycans, such as chondroitin sulfate, which are components of cartilage
  - Amino acids, such as glutamine, which are precursors of glycosaminoglycans
  - Antioxidants
  - Minerals important to cartilage health such as zinc, copper, and manganese
- Reduced energy content
- Reduced levels of sodium and phosphorus
- Enriched with antioxidants

## RATIONALE

Joint disease is common in older pets, especially in overweight dogs of the large or giant breeds. Green-Lipped Mussel Powder (GLMP) from *Perna canaliculus* is an ingredient that has been studied for its unique ability to promote joint health.



## CANINE

Although it is not clear which components of GLMP are responsible for its unique properties, GLMP is known to contain many constituents which may contribute to improved joint function. These constituents include several anti-inflammatory fatty acids [eicosatetraenoic acid (ETA), eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA)], chondroitin sulfate (a glycosaminoglycan constituent of cartilage), glutamine (a glycosaminoglycan precursor), antioxidants, and antioxidant co-factor minerals (zinc, copper, and manganese). Clinical studies have shown that GLMP significantly improves overall arthritic scores, joint pain, and joint swelling in dogs with clinical signs of osteoarthritis. MOBILITY SUPPORT JS 21<sup>TM/MC</sup> has a slightly restricted calorie content to help control weight in less active dogs easing stress on their joints. It is antioxidant enriched to help maintain the dog's natural defense system and help fight the effects of oxidative damage and the production of free radicals. The GLMP used in MOBILITY SUPPORT JS 21<sup>TM/MC</sup> is obtained from farm-raised mussels in New Zealand and is incorporated into the diet using a patented process to ensure delivery of this ingredient in the finished pet food.

### 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.
- The diet should be fed exclusively for at least three to six weeks.

### FEEDING GUIDE

#### FEEDING RECOMMENDATIONS FOR ADULT DOG MAINTENANCE

Body Weight		Suggested Caloric Intake kcal/day	Daily Feeding
lb	kg		Dry Only (8-oz cups/day)
5	2.3	203	3/4
10	4.5	342	1 1/4
20	9.1	575	2
30	13.6	779	2 3/4
40	18.1	967	3 1/2
50	22.7	1143	4 1/4
60	27.2	1311	4 3/4
70	31.8	1471	5 1/2
80	36.3	1626	6
90	40.8	1777	6 1/2
100	45.4	1923	7
110	49.9	2065	7 2/3
120	54.4	2204	8
130	59.0	2341	8 2/3
140	63.5	2475	9
150	68.0	2606	9 2/3

## PRODUCT DESCRIPTION

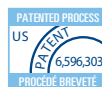
ROYAL CANIN Veterinary Diet™/MC canine MOBILITY SUPPORT JS 21™/MC is a nutritionally complete and balanced diet specially formulated with Green-Lipped Mussel Powder (GLMP) to promote joint health in adult dogs. The diet is antioxidant enriched to help maintain the body's natural defense system and to protect against oxidative damage. The diet contains a prebiotic (soluble fiber) which helps beneficial bacteria thrive in the digestive tract. This formula is highly digestible and contains no lactose.

## NUTRITION STATEMENT

MOBILITY SUPPORT JS 21™/MC is formulated to meet the nutritional levels established by the AAFCO Dog Food Nutrient Profiles for adult maintenance.



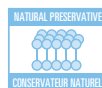
Green-Lipped Mussel (GLM) extract (*Perna canaliculus*) reduces the clinical signs of joint inflammation in dogs.



A patented process is used to ensure delivery of Green-Lipped Mussel Powder in the finished product.



Mature or overweight dogs are predisposed to joint disease. A moderate energy concentration helps prevent weight gain.



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

## GUARANTEED ANALYSIS

Crude Protein, (min)	21%
Crude Fat, (min)	8%
Crude Fiber, (max)	4%
Moisture, (max)	10.5%

## METABOLIZABLE ENERGY

From Protein	24.9%
From Fat	24.3%
From Carbohydrate	50.8%

Approximately 271 kcal per 8-oz cup; 370 kcal per 100 g; 73 g per 8-oz cup.

## INGREDIENTS

CHICKEN MEAL, GROUND CORN, RICE, GROUND WHEAT, CHICKEN FAT, NATURAL FLAVORS, DRIED BEET PULP, DRIED BREWERS YEAST, CELLULOSE POWDER, DRIED EGG POWDER, POTASSIUM CHLORIDE, VEGETABLE OIL, SODIUM CHLORIDE, DICALCIUM PHOSPHATE, CHOLINE CHLORIDE, GREEN LIPPED MUSSEL POWDER, VITAMINS [DL-ALPHA TOCOPHEROL ACETATE (SOURCE OF VITAMIN E), L-ASCORBYL-2-POLYPHOSPHATE (SOURCE OF VITAMIN C\*), 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], TAURINE\*, INULIN, TRACE MINERALS [ZINC OXIDE, FERROUS SULFATE, COPPER SULFATE, MANGANOUS OXIDE, SODIUM SELENITE, CALCIUM IODATE], PRESERVED WITH MIXED TOCOPHEROLS, ROSEMARY EXTRACT, AND CITRIC ACID.

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

# MOBILITY SUPPORT JS<sup>TM/IMC</sup>21



**CANINE**

## TYPICAL ANALYSIS

Nutrient	Unit	Per 100 g as fed	Per 1000 kcal
Moisture	g	9	
Protein	g	23.0	62.2
Fat	g	10.0	27.0
Carbohydrate	g	47.0	127.0
Ash	g	8.0	21.6
Crude Fiber	g	3.0	8.1
Total Dietary Fiber	g	7.5	20.3
<b>Minerals</b>			
Calcium	g	1.30	3.51
Phosphorus	g	0.90	2.43
Sodium	g	0.50	1.35
Chloride	g	1.30	3.51
Potassium	g	0.85	2.30
Magnesium	g	0.10	0.27
Copper	mg	3.2	8.6
Iron	mg	16.6	44.9
Zinc	mg	25.2	68.1
Manganese	mg	8.1	21.9
Iodine	mg	0.47	1.27
Selenium	mg	0.036	0.097
<b>Vitamins</b>			
Vitamin A	IU	1800	4865
Vitamin D3	IU	150	405
Vitamin E	mg	52	141
Thiamine (B1)	mg	0.5	1.4
Riboflavin (B2)	mg	0.4	1.1
Niacin	mg	1.5	4.1
Pyridoxine (B6)	mg	0.9	2.4
Pantothenic Acid	mg	3.5	9.5
Folic Acid	mg	0.9	2.4
Cobalamin (B12)	mg	0.007	0.019
Biotin	mg	0.30	0.81
Choline	mg	300	811
<b>Fatty Acids</b>			
Linoleic acid	g	2.5	6.8
Arachidonic acid	g	0.03	0.08
<b>Amino Acids</b>			
Arginine	g	1.3	3.5
Lysine	g	1.1	3.0
Methionine	g	0.46	1.2
Methionine + Cystine	g	0.73	2.0
Taurine	g	0.2	0.5



## ORDERING INFORMATION

Bag Size	Weight		Item Code
	lb	kg	
Small	n/a	n/a	n/a
Medium	5.5	2.5	29406
Large	16.5	7.49	29417
Extra Large	35	15.89	29435

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