

You can count on the quality and safety of BLUE Natural Veterinary Diet KS and K+M

Blue Buffalo® conducts ongoing clinical research and product testing to provide pets with the best possible nutrition. All formulas are thoroughly tested to ensure **safety and compliance**.



BLUE formulates and manages the nutritional profiles of its products **in house** with a full team of PhD-level animal nutritionists, technical services veterinarians and animal scientists.

PhD-level Animal Nutritionists

- Responsible for:
- Developing formulas
  - Analyzing nutrients to ensure efficacy
  - Research and development to continue delivering enhanced products

Certified Food & Bakery Scientists

- Responsible for:
- Ensuring all nutrients remain intact during manufacturing and product shelf life
  - Developing and managing the palatability and appearance of formulas

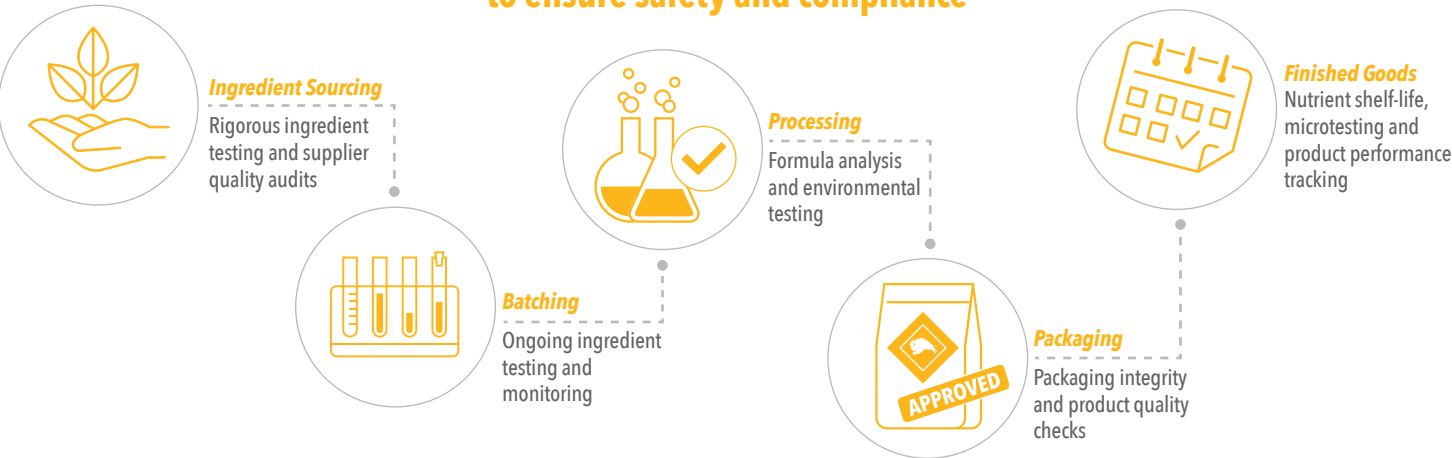
Technical Services Veterinarians

- Responsible for:
- Internal and external technical support
  - In-clinic veterinary support

DVM/PhD

- Responsible for:
- Product innovation and development
  - Technical and scientific training

Throughout the manufacturing process, all formulas are thoroughly tested to ensure safety and compliance



For more information on BLUE's Quality Assurance Program, contact your Technical Services Veterinarian or Veterinary Clinic Specialist

<sup>1</sup> Brown, Scott A. Renal Dysfunction in Small Animals. *The Merck Veterinary Manual*, October 2013. Web. July 2016. <[www.merckvetmanual.com](http://www.merckvetmanual.com)>  
<sup>2</sup> Forrester S et al. Chronic Kidney Disease. Ch.37 In Hand M et al. *Small Animal Clinical Nutrition*. 5th Ed. Topeka, KS: Mark Morris Institute; 2010. pp 765-810.  
<sup>3</sup> Polzin D. Chronic Kidney Disease. Ch.311 In Ettinger S et al. *Textbook of Veterinary Internal Medicine*. Volume 2. 7th Ed. St. Louis, MI: Saunders Elsevier; 2010. pp 1990-2021.  
<sup>4</sup> Brown SA. Functional foods and the urinary tract. *Vet Clin North Am Small Anim Pract*. 2004; 34:173-185.  
<sup>5</sup> LeBlanc CJ et al. Effects of dietary supplementation with fish oil on in vivo production of inflammatory mediators in clinically normal dogs. *Am J Vet Res*. 2008; 69:486-493.  
<sup>6</sup> Brown, Scott A. Oxidative stress and chronic kidney disease. *Vet Clin Small Anim*. 2008; 38: 157-66.  
<sup>7</sup> Ringseis R et al. Mechanisms underlying the anti-wasting effect of L-carnitine supplementation under pathologic conditions: evidence from experimental and clinical studies. *Eur J Nutr*. 2013; 52: 1421-1442.  
<sup>8</sup> Hohnadel, K and Panning, C. Managing Cardiac Disease with Nutrition. *ACVIM 2018*, St. Paul, MN.  
<sup>9</sup> Freeman, L. Nutritional Management of Cardiac Disease. *World Small Animal Veterinary Association World Congress Proceedings*, 2013. North Grafton, MA.  
<sup>10</sup> Freeman, L. Optimal Nutrition in Cats with Heart Disease. *ACVIM 2014*, North Grafton, MA.  
<sup>11</sup> Sanderson, SL. Taurine and carnitine in canine cardiomyopathy. *Vet Clin North Am Small Anim Pract*. 2006 Nov;36(6):1325-43, vii-viii.  
<sup>12</sup> Oxidative Stress in Dog with Heart Failure: The Role of Dietary Fatty Acids and Antioxidants, Emmanuelle Sagols and Nathalie Priymenko, *Vet Med Int*. 2011; 2011.  
<sup>13</sup> Blue Buffalo Company, Ltd., data on file, 2019.  
<sup>14</sup> Lascelles BDX et al. Evaluation of a Therapeutic Diet for Feline Degenerative Joint Disease. *J Vet Intern Med*. 2010; 24:487-495.  
<sup>15</sup> Beale BS. Use of Nutraceuticals and Chondroprotectants in Osteoarthritic Dogs and Cats. *Vet Clin Small Anim*. 2004; 34: 271-289.



Learn more about BLUE Natural Veterinary Diet formulas  
Call 888-323-BLUE or visit [BlueBuffalo.com/vet](http://BlueBuffalo.com/vet)

**The Natural Alternative in Nutritional Therapy®**

**KS** Kidney Support for Dogs  
**K+M** Kidney + Mobility Support for Cats

Natural Food for Pets  
Enhanced with added vitamins, minerals and trace nutrients



# BLUE Natural Veterinary Diet KS and K+M

Now you can provide natural therapeutic diets for dogs and cats with kidney disease

## DOGS

	Recommended Levels* for Renal Diets <sup>2,3</sup>	NVD KS Kidney Support for Dogs*
Protein	14 – 20%	16.85%
Phosphorus	0.2 - 0.5%	0.37%
Sodium	< 0.3%	0.20%

\*Dry Matter Basis

## CATS

	Recommended Levels* for Renal Diets <sup>2,3</sup>	K+M Kidney + Mobility Support for Cats*
Protein	28 – 35%	29.11%
Phosphorus	0.3 - 0.6%	0.55%
Sodium	≤ 0.4%	0.30%

\*Dry Matter Basis

Chronic Kidney Disease (CKD) affects as many as 10% of geriatric dogs and 35% of geriatric cats<sup>1</sup>

### KS Kidney Support for Dogs K+M Kidney + Mobility Support for Cats

Formulated by veterinarians and animal nutritionists to help manage kidney disease, both products feature:

- **Controlled protein levels:** Research has shown that reduced protein levels help control the clinical signs of uremia in dogs and cats.
- **Controlled levels of phosphorus:** Research has shown that decreased dietary phosphorus helps to limit the progression of kidney disease.
- **Controlled levels of sodium:** Feeding renal diets with decreased sodium has been associated with increased survival time.

### Both KS and K+M also feature:

High levels of omega-3 fatty acids, EPA and DHA, which have been shown to be beneficial to animals with kidney disease.

- Research has shown that supplementation with omega-3 fatty acids moderates serum levels of inflammatory mediators in healthy dogs.<sup>4</sup>
- Managing inflammation in kidney tissues can provide a renoprotective benefit.<sup>5</sup>

Antioxidants to help reduce oxidative stress, an important contributor to the progression of kidney disease.<sup>6</sup>

L-Carnitine to help support healthy muscle maintenance and body condition (for dry formulas only), which is beneficial for dogs and cats with compromised renal function.<sup>7</sup>

K+M Kidney + Mobility Support has been clinically shown to promote maintenance of lean muscle mass and renal health in senior cats.<sup>13</sup>

	DOGS KS Kidney Support for Dogs*	CATS K+M Kidney + Mobility Support for Cats*
Total Omega-3 Levels	2.16%	2.15%
DHA	0.38%	0.45%
EPA	0.42%	0.47%
Vitamin E	761 IU/kg	806 IU/kg
L-Carnitine	380 mg/kg	484 mg/kg

\*Dry Matter Basis, dry formulas

As many as 1 in 10 dogs and 1 in 5 cats suffer from cardiac disease<sup>8</sup>

KS and K+M diets feature nutrition that's been shown to benefit animals with cardiac disease, by providing:

- Controlled sodium levels, high levels of omega-3 fatty acids (EPA & DHA), plus antioxidants
- L-Carnitine and taurine, shown to support cardiovascular health



## Additional Features for Cats and Dogs

In addition to providing nutrition for pets with kidney disease, BLUE NVD KS Kidney Support for Dogs and K+M Kidney + Mobility Support for Cats provide more benefits, including:<sup>13</sup>

- **Clinically proven to produce a Calcium Oxalate Relative Supersaturation** value of < 3 in both dogs and cats
- **Clinically proven to produce an average urine pH** between 6.8 and 7.3 in dogs and cats\*
- **Highly digestible and highly palatable** (KS Kidney Support wet and dry formulas, and K+M Kidney + Mobility Support dry formula)
- **Calorically dense to promote adequate energy intake** with less volume intake (for dry formulas only)
- **Clinically shown** to produce ideal stool quality
- **Complete and balanced nutrition**
  - Animal feeding tests using AAFCO procedures substantiate that both BLUE NVD KS Kidney Support for dogs and BLUE NVD K+M Kidney + Mobility Support for cats provide complete and balanced nutrition for maintenance of adults (dry formulas only).

## Additional Features for Cats

BLUE K+M Kidney + Mobility Support for Cats is formulated to nutritionally manage both kidney disease and joint disease with added glucosamine and chondroitin sulfate to support mobility health.

- **Chondroprotectives such as glucosamine and chondroitin sulfate** promote healthy cartilage metabolism by providing substrate, upregulating chondrocytes, and inhibiting degradative enzymes.<sup>14</sup>
- **A diet containing EPA, DHA, glucosamine and chondroitin sulfate**, as well as other joint health-promoting nutrients, has been shown to improve mobility in cats with degenerative joint disease.<sup>15</sup>

## BLUE Natural Veterinary Diet KS Kidney Support for Dogs and K+M Kidney+Mobility Support for Cats

### INDICATIONS

- Kidney disease
- Calcium oxalate urolithiasis
- Joint disease in cats

### NOT RECOMMENDED FOR

- Struvite urolithiasis
- Growth, pregnancy or lactation

\*For dry formulas only. NVD KS wet formula avg. urine pH 6.4, NVD K+M wet formula avg. urine pH is 6.58

## Complete and balanced nutrition

Animal feeding tests using AAFCO procedures substantiate that KS Kidney Support for Dogs and K+M Kidney + Mobility Support for Cats provide complete and balanced nutrition for maintenance of adult animals\*

\*Dry formulas only. Wet formulas are indicated for intermittent or supplemental feeding.

