MEDICAL INDICATIONS:

- Dissolution of struvite uroliths
- Reducing the risk of both
 struvite and calcium oxalate
 uroliths recurrence
- Struvite-associated FLUTD
- Idiopathic cystitis



PURINA® PROPLAN VETERINARY DIETS®



Available in dry, loaf and Savory Selects.

FELINE URINARY HEALTH

INDICATION RELEVANCE

Feline Lower Urinary Tract Signs (LUTS) incidents are reported in approximately 3% of cats seen in private practice¹ and 8% of cats seen at US veterinary teaching hospitals.² It is one of the top 6 reasons for clients to visit a veterinarian.³

Common causes of Feline LUTS are idiopathic cystitis, urolithiasis and urethral plugs.⁴ There are also risk factors such as decreased water intake, obesity, inactivity, genetics and stress.



DIETARY MODIFICATION

Dietary modifications can help to nutritionally manage cats with this condition by modifying urine pH and promoting increased urine volume.



High protein content helps maintain ideal body condition and lean body mass.

¹Lund EM, Armstrong PJ, Kirk CA, et al. "Health status and population characteristics of dogs and cats examined at private veterinary practices in the United States." J Am Vet Med Assoc. 1999; 214(9): 1336-1341; ²Lekcharoensuk C, Osborne CA, Lulich JP. "Epidemiologic study of risk factors for lower urinary tract diseases in cats." J Am Vet Med Assoc 2001; 218(9): 1429-1435; ³Kynetec Veterinary Medicine Landscape 2020; ⁴Kruger JM, Osborne CA, Goyal SM, et al. "Clinical evaluation of cats with lower urinary tract disease." J Am Vet Med Assoc 1991; 199(2): 211-216.

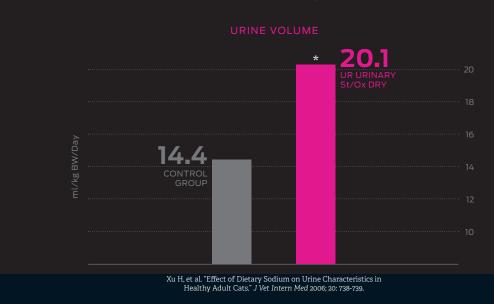
HEALTH BENEFITS

BENEFIT	INGREDIENTS	MECHANISM
URINARY MANAGEMENT		
 Promotes a urinary environment unfavorable to the development of both struvite uroliths (undersaturated) and calcium oxalate uroliths (metastable) Helps dissolve struvite uroliths Helps reduce the risk of both struvite and calcium oxalate urolith recurrence Average urine pH range of 6.0-6.4 	• Formulated for maintenance of adult cats	 Acidifies urine to produce an average pH in the beneficial range of 6.0-6.4 Controlled mineral levels Urinary testing Urine undersaturated for struvite Urine metastable for calcium oxalate
 URINE DILUTION Promotes increased urine volume to dilute the urine (dry) Moisture content >75% contributes to total water intake (wet) 	 Sodium and protein content (dry) H₂O in the formula (wet) 	 Safe dietary Na level (1.36% on a dry matter basis (DMB)) plus high protein content (44.87% DMB), is an effective means of increasing urine volume to help flush out stone-forming materials (dry) Wet products provide added moisture
GENERAL HEALTH		
• High protein content to help maintain ideal body condition and lean body mass	• High-quality protein and fat sources	 Protein levels at 44.87% dry and 47.49% loaf DMB Protein levels at 61.86% Savory Selects® Salmon Recipe and 62.41% Savory Selects® Turkey & Giblets Recipe Fat levels at 9.86% dry and 30.26% loaf DMB Fat levels at 15.16% Savory Selects® Salmon Recipe and 14.13% Savory Selects® Turkey & Giblets Recipe
• High in antioxidant vitamins A and E to support a healthy immune system	• Vitamins A & E	• A high level of antioxidant vitamins A and E to help support a healthy immune system

RESEARCH & RESULTS

URINE VOLUME STUDY (DRY)

Urine volume increased significantly in cats fed dry UR St/Ox vs. control (*p<0.001).



STRUVITE DISSOLUTION STUDY (DRY)

Study Objective:

To determine the efficacy of feeding Purina Pro Plan Veterinary Diets UR Urinary St/Ox (dry) for the dissolution of struvite cystoliths in cats.

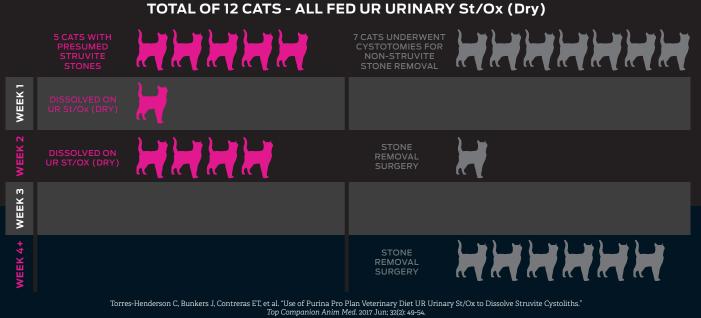
Stone Composition:

Cats with presumed Struvite, n=5 Cats with 100% CaOx, n=5 Cats with Mixed Uroliths, n=2

Conclusions:

UR Urinary St/Ox appears to dissolve struvite cystoliths as early as 1 week of feeding the diet.

Results suggest that feeding the diet can successfully dissolve cystoliths that are likely struvite, and may lessen risk of recurrence of struvite and calcium oxalate cystoliths.







Learn more at www.ProPlanVeterinaryDiets.ca

For more information, visit **www.ProPlanVeterinaryDiets.ca** or call us at 1-866-884-VETS (8387). Have a case consult? We are here to help. Contact our Canadian Veterinary Resource Centre at canadavetconsult@purina.nestle.com

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PURINA

Your Pet, Our Passion.