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URINOVET DOG 400 MG
VACCINUM, PETROSELINUM,
GLUCOSAMINUM



URINOVET CAT
VACCINUM, VALERIANA, PETROSELINUM,
GLUCOSAMINUM

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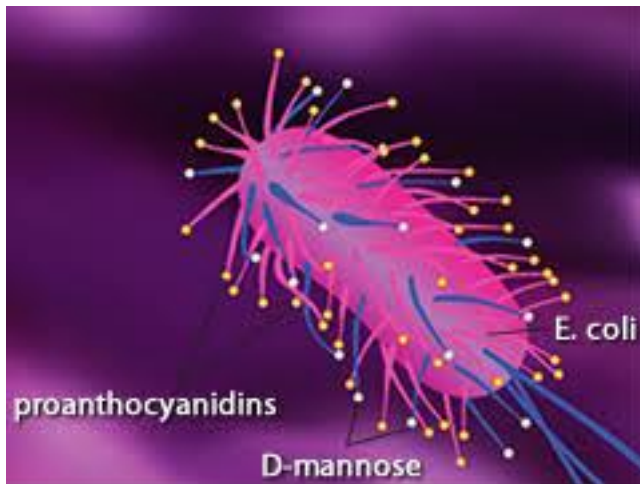
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UrinoVet - why works so good?



Cranberry extract - Antibacterial

Contains proanthocyanidine PAC A2, PAC B2, 3-PAC trimers), which binds to surface receptors of pathogenic bacteria impairs their adhesion to urinary tract endothelium.



Antiadhesive properties of cranberry prevents from the urinary bladder colonisation by pathogenic bacteria responsible for chronic urinary tract infections i.e. Escherichia coli

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Urinovet - Why Works So Good?

Parsley extract (*Petroselinum*) - diuretic

Parsley extract reduces the activity of the $\text{Na}^+/\text{K}^+\text{ATPase}$ in both kidney cortex and medulla. The mechanism of action of parsley seems to be mediated through an inhibition of the Na^+/K^+ pump that would lead to a reduction in Na^+ and K^+ reabsorption leading thus to an osmotic water flow into the lumen, and diuresis ([Kreydiyyeh and Usta, 2002](#)).



UrinoVet - why works so good?

Glucosamine – mucosal protection

- Glucosamine is a substrate for the production of glucoaminoglycanes (GAG).
- Mucosal surface of the bladder is lined with a thin layer of protective mucus containing a specific GAG, GP-51, which helps prevent bacteria and crystals adhering to the bladder wall.
- In some animals with cystitis a reduced concentrations of GAGs within this protective layer has been shown.
- GAG replacement therapy has been used with some success in humans with FIC and there is an assumption is that exogenous GAG will be excreted into the urine and attach to the defective urothelium, thereby decreasing bladder permeability (Wallius and Tidholm, 2009).

Urinovet - Why Works So Good?

Melissa (Cats)

Lemon balm (*Melissa officinalis*) extract could possess some anxiolytic and calming properties in cats.

- Its mechanism of action is dependent on the presence of rosmarinic acid (hydroxycinnamic acid).
- It exhibits anxiolytic effects at low doses (1-4 mg/kg b.w.) and has antidepressive-like effects. The possible anxiolytic activity of *M. officinalis* results from the elevation of GABA (gamma-aminobutyric acid), that occurs owing to inhibition of GABA-T.
- Lemon balm appear to increase GABA levels and increase GABAergic transmission in brain therefore inhibiting anxiety and behavioral changes in cats (Awad et al., 2007).



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Urinovet - How It Works?

- Valerian – the extract from *Valeriana officinalis* is commonly known as a substance with mild calming and anxiolytic properties (Houghton, 1988).
- The active substances present in the extract could bind with many receptors for neurotransmitters, including 5-HT_{5A} receptor, which is involved in modulation of anxiety. The anxiolytic activity of *Valeriana officinalis* extract was proved in many animal species and in humans (Kennedy and Wightman, 2011).

UrinoVet Cat Twist-Off

vaccinium, petroselinum, glucosaminum, valeriana

❖ Indications:

For cats to support urinary tract function in case of its failure or disorders. The combination of cranberry, valerian, parsley and glucosamine has antibacterial, smoothing, diuretic and sealing properties in case of FLUDT, urinary stones and urinary truck infections.

❖ Content:

Cranberry extract (*Vaccinum macrocarpon*), valerian extract, parsley extract, glucosamine

❖ Packing:

- 60 twist-off capsules

❖ Dosage

1-2 capsules/day

❖ Product registered as nutraceutic (food supplement)



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Urinovet Cat Twist Off

NUTRITIONAL PURPOSE:

- For cats to support urinary tract function in case of its failure or disorders.

Content:

- Cranberry extract (*Vaccinium macrocarpon*), valerian extract, parsley extract, glucosamine

Key benefits:

- The main problem with urinary system in dogs are bacterial urinary tract infections
- Complex content – multidirectional action
- Cranberry – antibacterial
- Parsley – scientifically proven diuretic action
- Glucosamine – improves GAG barrier in the bladder
- Valerian – calming effect in patients with FLUTD
- Could be used as supplement also in patients receiving commercial urinary diets
- Product could be used also in patients after catheterisation –in order to prevent to bacterial bladder infections
- Product for long term use – does not influence the nutritional balance of the food
- Product produced in factory fulfilling Good Manufacturing Practice requirements – the highest quality standards in pharmacy
- Only natural ingredients – does not require veterinarian prescription
- Scientific paper supporting its action available

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UrinoVet Dog

vaccinium, petroselinum, glucosaminum

❖ Indications:

Recommended for dogs to support urinary trucs functions in case of failure or disorders. The combination of cranberry, parsley and glucosamine has antibacterial, diuretic and sealing propteries in case of urinary truck infections.

❖ Content

Cranberry extract (Vaccinum macrocarpon) , parsley extract (Petoselium), glucosamine (Glucosaminium). Triple dose for UrinoVet Dog Large Breed.

❖ Packing:

-30 tablets/ pack

-20 packs/ case

❖ Dosage

UrinoVet Dog - 1 tabl/10 kg body mass



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Urinovet Dog

NUTRITIONAL PURPOSE

- Recommended for dogs to support urinary tracts functions in case of failure or disorders

Content:

- Cranberry extract (*Vaccinium macrocarpon*) , parsley extract (*Petroselinum*), glucosamine (Glucosaminium).

Key benefits:

- The main problem with urinary system in dogs are bacterial urinary tract infections
- Cranberry exerts documented antimicrobial activity in dogs urinary tract
- Glucosamine supports the function of protective barrier in the urinary bladder wall, which prevents from infiltration of bacteria and their toxins into the circulation
- Parsley is the only plant ingredient with documented ability to stimulate urine elimination
- Product could be used also in patients after catheterisation –in order to prevent to bacterial bladder infections
- Product for long term use – does not influence the nutritional balance of the food
- Product produced in factory fulfilling Good Manufacturing Practice requirements – the highest quality standards in pharmacy
- Only natural ingredients – does not require veterinarian prescription
- Scientific paper supporting its action available
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