

Doxycycline

SCHEDULING STATUS: S4

CURRENTLY COMPOUNDED FORMULATIONS:

Active ingredient(s)	Injectable	Oral equine paste	Oral carnivore paste	Orals for exotics	Oral solution/suspension	Topical treatment	Shampoo	Capsules/Tablets	Oral powder
Doxycycline hyclate	✓	✓	✓						

REGISTERED PRODUCT/ TRADE NAME: Doxyveto-50S; Doxyvit 100 soluble powder; VibraVet 10% paste; Doxydog; Doxysyrup; Mildox injection; Pulmodox 50 OSP.

PHARMACOLOGICAL CLASSIFICATION: Tetracycline antibiotic.

PHARMACOLOGICAL ACTION: Tetracyclines generally act as bacteriostatic antibiotics and inhibit protein syntheses by reversibly binding to 30S ribosomal subunits of susceptible organisms, thereby preventing binding to those ribosomes of aminoacyl transfer-RNA. Tetracyclines also are believed to reversibly bind to 50S ribosomes and additionally alter cytoplasmic membrane permeability in susceptible organisms.

INDICATION: Oral and parenteral tetracycline antibiotic. Not for IV injection in horses; do not give IM of SC to any species.

DOSAGE AND DIRECTIONS FOR USE:

DOGS:

For infections: 3-5 mg/kg PO bid for 7-14 days.
For ehrlichiosis: 5-10 mg/kg PO bid for 7-10 days.

CATS:

For infections: 5 mg/kg PO bid
For bartonellosis: 10 mg/kg PO bid

RABBITS/ RODENTS/ SMALL MAMMALS:

Mice, rats: 5 mg/kg PO bid with enrofloxacin
Chinchillas, gerbils, guinea pigs, hamsters: 2.5-5 mg/kg PO bid

REPTILES:

10 mg/kg PO bid for 10-45 days

BIRDS:

260 mg/2 L drinking water

WARNINGS/ PRECAUTIONS/ CONTRA-INDICATIONS:

- Contra-indicated in patients with hepatic impairment; pregnant animals; up to 4 weeks of age in neonates.
- Avoid use in patients with dysphagia or diseases accompanied by vomiting.
- Avoid use during reproductive period in birds.

REFERENCES:

- Plumb's Veterinary Drug Handbook, Sixth Edition by Donald C. Plumb
- South African Electronic Package Inserts www.home.intekom.com
- IDR, Volume 10 2009/2010