

Anthelmintics

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Anthelmintic: They are drugs which kill or remove worms from the animal body.

The ideal anthelmintic:

- Should have **a wide safety** margin
- **Should be economic** in price.
- Wide therapeutic index or **a broad spectrum activity** against mature & immature stages of parasites,
- Should be **easy to administer** to a large number of animals,
- Should have **Short withdrawal** periods because of residues,

Classification of anthelmintic

I- According to action

1. Vermifuge "Narcosis of parasite"
2. Vermicide "Kill parasite"

II- According to spectrum

1. Broad spectrum
2. Narrow spectrum

II- According to mode of action:

1. Inhibiting metabolic processes to the parasites (as **albendazol**, thiobendazole, **mebendazole**),
2. Inhibitors of enzymes in the glycolytic pathway (**Clorsulon**)
3. Induce paralysis of the worm through cholinestrase inhibitors (**organophosphate** as **coumaphos**, dichlorvos and trichlorfon),
4. Cholinergic agonists (**levamisole**),
5. Potentiation of inhibitory transmitters (**ivermectin, doramectin**)

Scientific and commercial names of common anthelmintic

Commercial name

Scientific name

Indication & dose

Drugs acting on Nematodes & trematodes

1- Ivomec inj[®]

Ivermectin

Indications: against on **external & internal** parasites,
Dose: **1 ml / 50 kg**
Route: **S/C**

2- Uvemec Plus[®]



Ivermectin +
Clorsulon

Indications: **Internal + External parasites + Fascioliasis**
Dose: **1 ml / 50 kg**
Route: **S/C**

Commercial name	Scientific name	Indication & dose
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Drugs acting on Nematodes

<p>3-Bimectin paste® 4-Ivermectin paste®</p>	<p>Ivermectin</p>	<p>Indication: on external & internal parasites, Dose: 1 tube/animal for large horse 0.5 tube/ animal for young foals. Route: Orally</p>
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Commercial name

Scientific name

Indication & dose

3- Levacide®
7.5%



Levamisole Hcl

Dose: 1 ml / 15 kg

Route: S/C

**Indications: Lungworm+
immunostimulant**

4- Albendazole 5 gm®



Albendazole

Dose: 7.5 ml / 50 kg

Route: Oral

**Indications: Internal parasites +
Lungworm + Fascioliasis**

Commercial name

Scientific name

Indication & dose

5-Hapedex®



Netobimin

Dose: 3 ml / 50 kg

Route: Oral

**Indications: Internal parasites +
Lungworm + Fascioliasis**

6-Antiver®



Mebendazole

Dose: 5 ml / 12 hrs for 3 days

Route: Oral

**Indications: Internal parasites +
Lungworm + Fascioliasis]**

Commercial name

Scientific name

Indication & dose

7- Nuperzin®

Syrup



Piperazine
citrate

Indication: Ascariasis

Dose: Cattle, Buffalo & Horse 100 ml.

Calf / Sheep / Goat 30 ml.

Route: Oral

Drugs acting on fasciola

1-Dovix®



Nitroxynil

Dose: 1 ml / 25 kg

Route: S/c

Indications: effective against late
immature liver fluke

Commercial name

Scientific name

Indication & dose

2-Ramectin®



Ivermectin
10mg

Rafoxanide
125 mg.

Dose:

Cattle: **1 ml / 50** kg body weight
sheep **1 ml / 25** kg

Route: S/C

**Indications: internal & external
parasites & liver fluke**

Commercial name

Scientific name

Indication & dose

3-Ranid[®]



Rafoxanid

Dose: **18 ml / 50 kg** for cattle and **2.5 ml / 10 kg** for sheep.

Route: **Oral Drench**

Indications **Controls** mature & **immature liver fluke**

Drugs acting on Blood parasites

1-Intropar[®]



Diminazene
aceturate

Dose: **1 ml / 20 kg** (Vial dissolved in water – vial / 300 kg)

Route: **I/M**

Indications: **Babesiosis – Anaplasmosis - Trypanosomiasis**

Commercial name

Scientific name

Indication & dose

Drugs acting on Blood parasites

2-Imizol®



Imidocarb
dipropionate

Dose: **1 ml / 100 kg**
Route: **I/M – S/C**
Indications: **Babesiosis –
Anaplasmosis – Trypanosomiasis**

3-Butalex®



Buparvaquone

Dose: **1 ml / 20 kg**
Route: **I/M**
Indications: **Theileriosis**