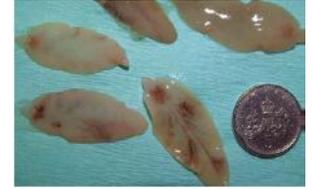


Cattle Parasite Control Guide



A comprehensive list of products for the control of internal and external parasites of cattle



Introduction

Parasite Control – getting it right

Choosing the right product and getting the most from it are key factors in ensuring optimum cattle performance for least cost and reducing the risk of anthelmintic resistance. Working through the information available on the wide range of products available, for example, on aspects such as withdrawal periods, can be difficult and time-consuming but worthwhile all the same.

The aim of this booklet is to provide an accurate, easy-to-use reference guide on all available anti-parasitic products in their various chemical groups and summarising the parasites that they have been licensed to control. Decisions should be discussed with your advisor, vet, Suitable Qualified Person (SQP) or Veterinary Pharmacologist (VP)

It is important that anthelmintics and external parasite control products work as efficiently as possible. This can be achieved by:

- Choosing the most appropriate product for the parasites likely, or known, to be present
- Targeting the right parasite will give predictable results and may mean re-treatment is less likely to be needed. This may also reduce unnecessary selection pressure for anthelmintic resistance
- Administering products at the correct dose
- Storing and handling products safely and correctly
- Consulting the label and/or datasheet before using a product

For further information visit: www.noahcompendium.co.uk or www.vmd.defra.gov.uk, or check the manufacturer's website.

What type of anthelmintic should be used?

Anthelmintics are used to treat and prevent worm infections – roundworm, tapeworm, lungworm and fluke. These products fall into the following groups:

1. (BZ) Benzimidazoles
2. (LV) Levamisole (Imidazothiazoles)
3. (ML) Macrocyclic lactones, including avermectins and milbemycins
4. Specific fluke and tapeworm treatments
5. Combination products

Anthelmintics belonging to groups 1-3 (see tables) are broad spectrum and are active against the major species of gut roundworms and lungworms. Some also have activity against liver fluke and tapeworm. ML (Group 3) injectables and pour-ons also have activity against some ectoparasites.

Treatment for fluke should take account of the particular risk, time of year and the stage of development of the fluke (immature vs adult fluke). This should be discussed with your advisor.

At housing of first (and probably second) year grazing animals, it is important to choose cattle anthelmintics (commonly known as wormers) that are effective against inhibited fourth stage *Ostertagia ostertagi* larvae which can cause Type II ostertagiasis (emergence of inhibited larvae) causing a condition known as winter scour. Macrocyclic lactone (ML) products are active against inhibited larvae.

If rumen fluke are suspected discuss with your vet, as treatment is not always required and not all products are suitable and the dose rate may need to be changed.

As well as being controlled by most anthelmintics, lungworm in cattle can be very effectively controlled using the oral lungworm vaccine.

Ectoparasites can be controlled with synthetic pyrethroid products or, for some species, those in the macrocyclic lactone group (avermectins and milbemycins). The range of ectoparasites controlled varies, so it is important to read the data sheet for each product before use and get appropriate advice from a vet, Suitably Qualified Person (SQP) or Veterinary Pharmacologist (VP).

Anthelmintic resistance

Anthelmintic resistance is widely reported in sheep and horses and strategies such as those advocated by Sustainable Control of Parasites in Sheep (SCOPS), have been developed to reduce the spread and increase of resistance in sheep flocks. Reports of resistance to anthelmintics in cattle nematodes are less common. In addition, inefficacy/resistance to the flukicide triclabendazole is reported.

To minimise the risk of resistance developing and spreading in cattle or sheep, it is important to:

- Discuss a control strategy with your advisor
- Quarantine and anthelmintic treat new animals to prevent importing resistant worms
- Administer anthelmintics at the correct dosage
- Use anthelmintics for optimum effect
- Select the appropriate anthelmintic(s) for the task
- Reduce dependence on anthelmintics by using other management strategies such as silage aftermaths, reseeded and mixed grazing (beware of cross-species transfer of liver fluke)
- Monitor efficacy of the anthelmintics used

Dosing Essentials

Purchase and storage

Always source anthelmintics from a registered supplier and check expiry date before using. Consult your advisor to check the right product has been chosen for the particular use and seek further advice if necessary

Dewormers should be stored securely, away from direct sunlight at 4-25°C. Always check the 'use by' date and once open, use within the time shown on the packaging. Shake white (BZ) products well before use.

Dosing correctly

Whichever method of administration is selected it is important to read the manufacturer's instructions carefully. Particular attention should be paid to:

- Class of stock for which the drug is recommended and any limitations regarding use
- Using the appropriate dose rate and range to deal with different parasite species or developmental stages
- Withhold period before sale for slaughter
- Body weight assessment to avoid underdosing
- Correct storage of anthelmintics, i.e. away from direct sunlight, avoiding extremes of temperature.
- Check the use-by date and, once open, use within the time shown on the packaging. Note that some products need to be well shaken before use.
- Do not mix with other products in order to combine 'dosing' – this can inactivate the products

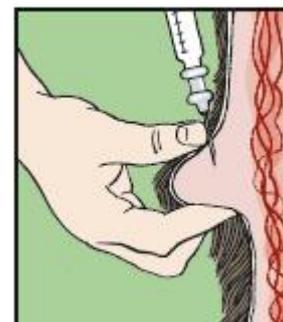
Pour-on preparations

These should be applied along the length of the flattest part of the animal's back, from the withers to the tail head. In general, animals should not be treated when the hair is wet or if rain is anticipated within two hours of treatment. However, some products are waterproof and can be used on wet animals. Refer to the datasheet for the specific product being used. Areas of damaged skin should be avoided, as should areas contaminated with mud or manure.

Injectable preparations

Injectables should be given according to the manufacturer's instructions at the recommended injection site.

- Always use a clean, sterile syringe and needle. If using a multiple injection gun, ensure the needle is disinfected between injections with a recognised sterilisation system
- Reusing needles can pass infections between animals. Also needles easily blunt and can cause damage
- If the site to be injected is dirty, clean the skin and swab with an alcohol impregnated wipe or cotton wool
- Use the correct sized needle according to animal size and site of injection
- Ensure the animal is adequately restrained before attempting the injection
- For subcutaneous injections, raise a fold of skin at the injection site recommended by the product manufacturer and inject carefully into the space created



- If a large dose is to be delivered it may be advisable to split the dose between two injection sites. After the injection, briefly massage the site to improve the dispersal of the injected material
- Some products are given by subcutaneous injection at the base of the ear
- Following injection, dispose of the needle and syringe in appropriate clinical waste and sharps containers

Bolus preparations

Care is required when administering boluses to prevent damage to the throat and choking. Boluses release anthelmintic over an extended period of time and reduce the need to handle cattle during the grazing season.

- Always use the appropriate bolus applicator to ensure the bolus fits correctly
- Ensure the animal is adequately restrained before attempting administration
- Follow the manufacturer's guidelines on the correct way to insert the bolus into the applicator
- Insert the applicator from the front of the mouth over the back of the tongue with no more than gentle, firm pressure
- As the animal begins to swallow, passage into the throat will become easier
- Take care not to insert the gun too far into the throat
- Once confident that the applicator is in the throat, depress the plunger to eject the bolus
- Carefully remove the applicator and ensure the animal has swallowed the bolus before releasing



Injection practice and bolus application information supplied by Zoetis

Oral drench preparations

Care must be taken when dosing animals orally. It is important to ensure that drenching equipment is correctly calibrated and in good working order. Faulty equipment or attempting to dose too quickly may mean that the barrel of the gun does not fill properly or that the suspension is full of bubbles.

It is important to place the nozzle of the dosing gun over the back of the tongue so that the entire dose is swallowed. In addition to dosing gun injuries, poor dosing technique can result in the product bypassing the rumen and entering the abomasum instead. This alters the availability of the drug, impacting on efficacy.

In-feed preparation

Drench wormers cannot be mixed in with feed but need to be given separately as per manufacturer's instructions.

In-feed preparations are used infrequently and allow little control over the amount of drug an individual animal consumes, unless they are fed separately or in small supervised groups. There is a real risk that some animals will receive less than the recommended dose for their weight, while others will receive more.

Treatments for cattle parasite control – Cattle Endoparasiticides

Group 1: Benzimidazoles (BZ) (White)

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Albactert	Chanelle AH	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Albenil Low Dose	Virbac	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Albenil SC	Virbac	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Albensure 2.5%	Chanelle AH	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Albensure 10%	Chanelle AH	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Albex 10%	Chanelle AH	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench		14 days	60 hrs
Albex 2.5% SC	Chanelle AH	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Autoworm Finisher	Zoetis	Oxfendazole	Roundworm Lungworm Tapeworm	Pulse release bolus		6 months	X
Autoworm First Grazer	Zoetis	Oxfendazole	Roundworm Lungworm Tapeworm	Pulse release bolus		8 months	X
Bovex 2.265%	Chanelle AH	Oxfendazole	Roundworm Lungworm Tapeworm	Oral Drench		19 days	84 hrs
Endospec 10% SC	Bimeda	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Endospec 2.5% SC	Bimeda	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Fenzol 5%	Norbrook Labs	Fenbendazole	Roundworm Lungworm Tapeworm	Oral Drench		12 days	120 hrs
Ovispec S&C 10% Oral Suspension	Elanco	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Ovispec S&C 2.5% Oral Suspension	Elanco	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench	Co, Se	14 days	60 hrs
Panacur 2.5% Oral Suspension	MSD AH	Fenbendazole	Roundworm Lungworm Tapeworm	Oral Drench		12 days	120 hrs
Panacur 10% Oral Suspension	MSD AH	Fenbendazole	Roundworm Lungworm Tapeworm	Oral Drench/ In-Feed		12 days	120 hrs
Panacur 4% Powder	MSD AH	Fenbendazole	Roundworm Lungworm Tapeworm	In-Feed/ pre-mix		14 days	120 hrs
Panacur Bolus	MSD AH	Fenbendazole	Roundworm Lungworm Tapeworm	Bolus		200 days	X
Parafend LV	Norbrook Labs	Oxfendazole	Roundworm Lungworm Tapeworm	Oral Drench		9 days	X
Tramazole 2.5% SC	Tulivin Labs	Albendazole	Roundworm Lungworm Tapeworm Fluke (adult only)	Oral Drench		14 days	60 hrs
Zerofen 10%	Chanelle AH	Fenbendazole	Roundworm Lungworm	Oral Drench		14 days	132 hrs
Zerofen 2.5%	Chanelle AH	Fenbendazole	Roundworm Lungworm	Oral Drench		14 days	132 hrs

Group 2: Levamisole (LV) (Yellow)

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Chanaverm 7.5%	Chanelle AH	Levamisole	Roundworm Lungworm	Oral Drench		20 days	X
Combinex Cattle	Novartis AH	Levamisole Triclabendazole	Roundworm Lungworm Fluke	Oral Drench		56 days	X
Levacide 3% Drench	Norbrook Labs	Levamisole	Roundworm Lungworm	Oral Drench		14 days	X
Levacide 7.5% Solution for Injection	Norbrook Labs	Levamisole	Roundworm Lungworm	Injection S/C		28 days	X
Levacide Low Volume 7.5%	Norbrook Labs	Levamisole	Roundworm Lungworm	Oral Drench		14 days	X
Levacide Pour-On	Norbrook Labs	Levamisole	Roundworm Lungworm	Pour-On		28 days	X
Levacur SC 3%	MSD AH	Levamisole	Roundworm Lungworm	Oral Drench	Co, Se	20 days	X
Levafas Diamond	Norbrook Labs	Levamisole Oxytocyanide	Roundworm Lungworm Fluke	Oral Drench		5 days	X
Levamisole Injection	Chanelle AH	Levamisole	Roundworm Lungworm	Injection S/C		28 days	X

Check product labels for full and final details X = not for use in cattle producing milk for human consumption

Group 3: Macrocyclic Lactones (ML) (Clear)

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Animec 1% Injection	Chanelle AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	X
Animec Pour- On 0.5%	Chanelle AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	X
Animec Super Injection for Cattle	Chanelle AH	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Bimectin Injection	Bimeda	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	X
Bimectin Plus	Bimeda	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Bimectin Pour- On for Cattle	Bimeda	Ivermectin	Roundworm Lungworm Mites Warbles Lice Hornflies	Pour-On		31 days	X
Closamectin Injection	Norbrook Labs	Ivermectin Closantel	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		49 days	X
Closamectin Pour-On	Norbrook Labs	Ivermectin Closantel	Roundworm Lungworm Fluke Mites Warbles Lice	Pour-On		28 days	X
Cydectin 0.5% Pour-On for Cattle	Zoetis	Moxidectin	Roundworm Lungworm Mites Warbles Lice Hornflies	Pour-On		14 days	6 days
Cydectin 1% Injectable Solution for Cattle	Zoetis	Moxidectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		65 days	60* days
Cydectin 10% LA for Cattle	Zoetis	Moxidectin	Roundworm Lungworm Mites Warbles Lice	Ear Injection		108 days	80* days
Cydectin TriclaMox	Zoetis	Moxidectin Triclabendazole	Roundworm Lungworm Fluke	Pour-On		143 days	X
Dectomax 10mg/ ml Solution for Injection for Cattle and Sheep	Elanco	Doramectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		56 days	60* days
Dectomax Pour-On	Elanco	Doramectin	Roundworm Lungworm Mites Warbles Lice Hornflies	Pour-On		35 days	60* days
Depidex Pour-On	Novartis AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	60* days
Ecomectin 0.5% Cattle Pour-On	Eco AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		31 days	X
Ecomectin 1% Solution	Eco AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	X
Enovex Injection	Norbrook Labs	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		35 days	60* days
Enovex Pour-On	Norbrook Labs	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	60* days
Eprinex Pour-On	Merial AH	Eprinomectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		15 days	Zero
Eprizero Pour-On	Norbrook Labs	Eprinomectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		10 days	Zero
Ivomec Classic Injection for Cattle and Sheep	Merial AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Ivomec Classic Pour-On for Cattle	Merial AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		15 days	60* days
Ivomec Super Injection for Cattle	Merial AH	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Molemec Injection for Cattle and Sheep 10mg/ml	Merial AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Molemec Pour-On for Cattle 5mg/ml	Merial AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		15 days	60* days
Norador Pour-On	Norbrook Labs	Doramectin	Roundworm Lungworm Mites Warbles Lice Hornflies	Pour-On		35 days	60* days
Norofas	Norbrook Labs	Ivermectin Closantel	Roundworm Lungworm Fluke Mites Lice	Pour-On		28 days	X
Noromectin Multi Injection	Norbrook Labs	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Noromectin Pour-On	Norbrook Labs	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	60* days
Panomec Injection for Cattle, Sheep and Pigs	Merial AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Paramectin Multi Injection	Norbrook Labs	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Paramectin Pour-On	Norbrook Labs	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	60* days
Premadex 1% Solution for Injection	Virbac	Ivermectin	Roundworm Lungworm Mites Warbles Lice Eyeworm	Injection S/C		35 days	60* days
Premadex Pour-On	Virbac	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	60* days
Qualimec 10mg/ ml Solution for Injection	ECO AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Qualimec 5mg/ ml Pour-On Solution	ECO AH	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		31 days	60* days

Group 3: Macrocyclic Lactones (ML) (Clear) - continued

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Supremadex	Virbac	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Virbamec Injectable Solution	Virbac	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Injection S/C		49 days	60* days
Virbamec Pour-On	Virbac	Ivermectin	Roundworm Lungworm Mites Warbles Lice	Pour-On		28 days	60* days
Virbamec Super	Virbac	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Zermex 10% LA for Cattle	Zoetis UK	Moxidectin	Roundworm Lungworm Mites Warbles Lice	Ear Injection		108 days	80* days
Zermex Pour-On	Zoetis UK	Moxidectin	Roundworm Lungworm Mites Warbles Lice Hornflies	Pour-On		14 days	6 days

*Not permitted for use in cattle producing milk for human consumption or manufacturing purposes, or in dry cows and pregnant heifers within stated days before calving.

X = not for use in cattle producing milk for human consumption. ** Give at the start of the dry period.

Combination Products

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Animec Super Injection for Cattle	Chanelle AH	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Bimectin Plus	Bimeda	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Closamectin Injection	Norbrook Labs	Ivermectin Closantel	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		49 days	X
Closamectin Pour-On	Norbrook Labs	Ivermectin Closantel	Roundworm Lungworm Fluke Mites Warbles Lice	Pour-On		28 days	X
Combinex Cattle	Novartis AH	Levamisole Triclabendazole	Roundworm Lungworm Fluke	Oral Drench		56 days	X
Cydectin TriclaMox	Zoetis	Moxidectin Triclabendazole	Roundworm Lungworm Fluke	Pour-On		143 days	X
Ivomec Super Injection for Cattle	Merial AH	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Levafas Diamond	Norbrook Labs	Levamisole Oxyclozanide	Roundworm Lungworm Fluke	Oral Drench		5 days	X
Norofas	Norbrook Labs	Ivermectin Closantel	Roundworm Lungworm Fluke Mites Lice	Pour-On		28 days	X
Supremadex	Downland	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days
Virbamec Super	Virbac	Ivermectin Clorsulon	Roundworm Lungworm Fluke Mites Warbles Lice	Injection S/C		66 days	60* days

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Flukicides

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Endofluke 10%	Bimeda	Triclabendazole	Fluke	Oral Drench		56 days	45 days dry +2 days milk
Fasinex 10%	Novartis AH	Triclabendazole	Fluke - all stages	Oral Drench		56 days	X
Fasinex 100	Novartis AH	Triclabendazole	Fluke - all stages	Oral Drench		56 days	X
Fasinex 240	Novartis AH	Triclabendazole	Fluke - all stages	Oral Drench		52 days	48 days dry +2 days milk
Tribex 10	Chanelle AH	Triclabendazole	Fluke	Oral Drench		56 days	X
Triclacert 10%	Downland	Triclabendazole	Fluke	Oral Drench		56 days	X
Trodax 34%	Merial AH	Nitroxynil	Immature and adult fluke	Injection S/C		60 days	X
Zanil	MSD AH	Oxyclozanide	Adult Fluke	Oral Drench		28 days	72 hrs
Flukiver Bovis	Elanco	Closantel	Fluke	Injection S/C		77 days	X

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Ectoparasiticides – Synthetic Pyrethroids

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)	MILK WITHHOLD
Auriplak	Virbac	Permethrin	Flies	Ear Tag		Nil	Zero
Butox Swish	MSD AH	Deltamethrin	Flies Lice	Pour-On		20 days	Zero
Deltacert Pour-On	Downland	Deltamethrin	Flies Lice	Pour-On		17 days	Zero
Dysect Cattle Pour-On	Zoetis	Alphacypermethrin	Flies Lice	Pour-On		28 days	Zero
Flectron Fly Tags	Zoetis	Cypermethrin	Flies	Ear Tag		Nil	Zero
Flypor	Novartis AH	Permethrin	Flies Lice Mites#	Pour-On		3 days	6 hrs
Zoetis Spot On Insecticide	Zoetis	Deltamethrin	Flies Lice	Spot On		17 days	Zero
Zermasect Cattle	Downland	Alphacypermethrin	Flies Lice	Pour-On		28 days	Zero

Check product labels for full and final details # Sarcoptic and chorioptic mange mites

Ectoparasiticides – Miscellaneous

PRODUCT	COMPANY NAME	CHEMICAL NAME	PARASITES CONTROLLED	USE	TRACE ELEMENTS	WITHDRAWAL PERIOD (MEAT)
Horse & cattle fly repellent – Liquid	Battle Hayward and Bower	Diethyltoluamide p-Menthane-3, 8-diol	Flies	Topical Lotion		Nil

Always consult the ‘summary of product data sheet’ before using a product as it contains more detailed information than is presented here and changes to specifications do occur. The summary of product data sheets can be found on the VMD website.



This list has been adapted from the information taken from the EBLEX BRP Cattle and Sheep Parasite Control Guide 2014.

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