

MycoBind...for Perennial Ryegrass Staggers.

Perennial Ryegrass is a great feed for sheep and cattle. When ryegrass dominant pastures are infected by a fungus (*Neotyphodium lolii*) good feed turns nasty.

The naturally occurring endophytic fungus is hard to see and lives in the plant leaf sheath and seed head. While the fungus is not harmful to the grass, the chemicals it produces (alkaloids) are harmful to livestock. The alkaloids are of the type called lolitrems and ergovalines. Lolitrem interrupts the nervous system in the brain, and ergovaline induces fevers and affects milk production. Ergovaline is also produced in endophyte infected fescue.



Ergot-infected perennial ryegrass. David Barker. Ohio State Univ.

Symptoms

Signs of alkaloid toxicity develop over a few days. Initially small tremors of the head are noticed in undisturbed stock. Sudden noise and movement will stimulate severe tremors and head nodding. Disturbed stock are uncoordinated and often fall over and become cast. When stock are left to settle, symptoms fade but quickly reoccur if disturbed again. Mortality is usually low (0-5%), but morbidity can be as high as 80-90% (Merck Veterinary Manual, 10th ed, 2010). Veterinary consultation is recommended for positive diagnosis as several diseases can cause these symptoms.

Management

Moving stock exacerbates the problem, so individual treatment is not practical. Drifting stock off infected pasture speeds recovery. Reseeding of pastures with seed not infected with endophyte is a long term option. There are also endophyte resilient hybrids now available.

Treatment

A common and successful method of reducing the effect of toxins is to make them inert or inactive when in the animal. Mycotoxin binders are mixed in the feed and become active in the gut. WeatherPro MycoBind contains a yeast extract that is effective against both lolitrem B and ergovaline as well as mycotoxins found in hay, grain and silage.

WeatherPro MycoBind is palatable, waterproof and wind proof, so stock will take it and take the right amount for optimum benefit.

Use WeatherPro MycoBind whenever Perennial Ryegrass pastures are grazed in late spring, summer or an early autumn.



WeatherPro

WeatherPro® MycoBind

A highly weatherproof, mineral supplement with extra Magnesium for all classes of cattle on pasture.

WeatherPro... All Weather Nutrition.

The convenient answer for mineral and vitamin supplementation of grazing livestock. WeatherPro® facilitates integrated year-round supplementation to accurately meet seasonal changes in animal requirements and forage quality.

- Versatile, weatherproof structure
- Nutritionally balanced, species-specific formula's
- Predictable, self-limiting intakes
- Customised and fortified options available
- Cost-effective, high-quality ingredients
- Manufactured under ISO 9002 standards



POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE
OPENING AND USING
FOR ANIMAL TREATMENT ONLY

**WeatherPro®
Mycobind**

A highly weatherproof, trace mineral and vitamin supplement with mycotoxin binder.

Mycobind provides protection against a wide range of mould toxins. Useful for stock grazing ergot infected rye and fescue, eating mouldy hay, gains or other feedstuffs.

WeatherPro

ANIMAL USE ONLY:
Follow label directions.

Guaranteed Analysis (As-Fed)

Salt (NaCl), Max.	%	38.00
Salt (NaCl), Min.	%	37.00
Calcium (Ca)	%	13.00
Mycotoxin Binder	%	10.00
Magnesium (Mg), min.	%	2.80
Phosphorus (P), min.	%	0.50
Sulphur (S), min.	%	0.04
Zinc (zn), min.	mg/kg	1,600.00
Manganese (Mn), min.	mg/kg	1,600.00
Iodine (I), min.	mg/kg	57.00
Cobalt (Co), min.	mg/kg	20.00
Selenium (Se), min.	mg/kg	13.00
Copper (Cu), min.	mg/kg	2.00
Vitamin A	IU/kg	62,850.00
Vitamin E	ppm	228.00

Ingredients: Salt, Calcium carbonate, Mycotoxin binder, Vegetable Protein, Magnesium oxide, Molasses, Di-calcium phosphate, Petroleum, Sodium saccharine, Manganese sulphate, Zinc sulphate, Sodium selenite, Copper sulphate, Vitamin A (Retinol), Vitamin E, Potassium iodide, Cobalt carbonate.

Feeding Directions: Provide free-choice in secure, well-drained containers located near known feeding and/or watering points. Average daily intakes typically vary from 80-150g/head and will fluctuate in accordance with animal size, dietary quality and production status.

Allow: 50-150 grams/day (Cattle); 20-80 grams/day (Sheep)

Precautions: Minerals such as copper, cobalt, selenium, and manganese compete with each other for metabolically important processes in the animal. Users should seek veterinary advice before treatment.

THIS PRODUCT DOES NOT CONTAIN RESTRICTED ANIMAL MATERIAL.
WHP and ESI: Nil

First Aid/Safety Information: Please see website for SDS sheet. If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126.

A selenium specific cautionary statement: Excessive tissue levels of selenium are toxic. Care should be taken to avoid over supplementation from this product and/or concurrent use of other products containing selenium (such as pasture top dressing, pellets, drenches or vaccine containing selenium. If blood selenium levels are high this product should not be used. Users can determine an animals' selenium status by consulting their veterinarian.

Best Before: 2yrs from DOM
Net Weight: 20KG

Manufacturing & Distribution:
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