

GENERAL INFORMATION: BioWorma® is a palatable feed supplement intended for further mixing into feed, feed supplements, premixes or concentrates and contains the spores of *Duddingtonia flagrans* strain IAH 1297, a fungus found in soil and pasture. It is a biological control for the free-living stages of the parasitic gastrointestinal nematodes (as listed below) of grazing animals and acts by substantially reducing the numbers of infective worm larvae (including chemical/anthelmintic multi-resistant larvae) emerging from manure onto pasture. When fed to grazing animals, the thick-walled spores remain inert (having no effect within the host animal) and resist digestion, passing through into the manure. Within the manure, the spores germinate and form trapping organs that capture, paralyze and consume emerging infective worm larvae (including chemical/anthelmintic multi-resistant larvae). The crucial re-infestation stage of the parasites' life cycle is interrupted, reducing the amount of re-infection from contaminated pasture. This interruption of the life cycle reduces parasitic nematodes on pasture.

PESTS CONTROLLED IN MANURE: BioWorma® is mixed into feed, feed supplements, premixes or concentrates that is fed to grazing animals to reduce nematodes.

The following is a list of roundworms/nematodes trapped by *Duddingtonia flagrans* strain IAH 1297 globally and the presence or absence of some of these nematodes may vary from region to region.

Sheep & Goats: Barber's Pole Worm or Wire Worm (*Haemonchus* spp.), Black Scour Worm or Hair Worm (*Trichostrongylus* spp.), Brown Stomach Worm (*Teladorsagia* (*Ostertagia*) spp.), Nodule Worm (*Oesophagostomum* spp.), Thin-necked Intestinal Worm (*Nematodirus* spp.), Hookworm (*Bunostomum* spp.), Intestinal Worm (*Cooperia* spp.), Large-mouthed Bowel Worm (*Chabertia* spp.), *Skrjabinema* spp., Threadworm (*Strongyloides* spp.), Whipworm (*Trichuris* spp.), *Gongylonema* spp. and *Mecistocirrus* spp.

Cattle: Barber's Pole Worm or Wire Worm (*Haemonchus* spp.), Brown Stomach Worm (*Teladorsagia* (*Ostertagia*) spp.), Black Scour Worm or Hair Worm (*Trichostrongylus* spp.), Hookworm (*Bunostomum* spp.), Intestinal Worm (*Cooperia* spp.), Thin-necked Intestinal Worm (*Nematodirus* spp.), Nodule Worm (*Oesophagostomum* spp.), Threadworm (*Strongyloides* spp.), *Toxocara vitulorum*, Whipworm (*Trichuris* spp.), *Gongylonema* spp. and *Mecistocirrus* spp.

Horses: Large Strongyles (Large Red Worms), including *Strongylus* spp., *Triodontophorus* spp. and *Oesophagodontus* spp.; Small Strongyles (Small Red Worms or *Cyathostomes*), including *Cyathostomum* spp., *Cylicocyclus* spp. and *Cylicostephanus* spp.; Stomach Hair Worm (*Trichostrongylus axei*); Ascarids (*Parascaris equorum*); Threadworms (*Strongyloides westeri*) and Pinworms (*Oxyuris equi*).

Other Grazing Animals (including Deer, Alpacas and Zoo Animals): Barber's Pole Worm or Wire Worm (*Haemonchus* spp.), Black Scour Worm or Hair Worm (*Trichostrongylus* spp.), Brown Stomach Worm (*Teladorsagia* (*Ostertagia*) spp.), Nodule Worm (*Oesophagostomum* spp.), Thin-necked Intestinal Worm (*Nematodirus* spp.), Hookworm (*Bunostomum* spp.), Intestinal Worm (*Cooperia* spp.), Threadworm (*Strongyloides* spp.), Whipworm (*Trichuris* spp.), Ascarids or Small Intestinal Roundworms (*Ascaris* spp.), Threadworms or Pinworms (*Strongyloides* spp.), Large Strongyles (*Strongylus* spp.) and Hairworm (*Capillaria* spp.)

There will be mixed infections with several worm species infecting the host at the same time.

KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN

See back panel for additional Precautionary Statements

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

BioWorma®

ACTIVE INGREDIENT

Duddingtonia flagrans strain IAH 1297* 34.600%

OTHER INGREDIENTS** 65.400%

Total: 100.000%

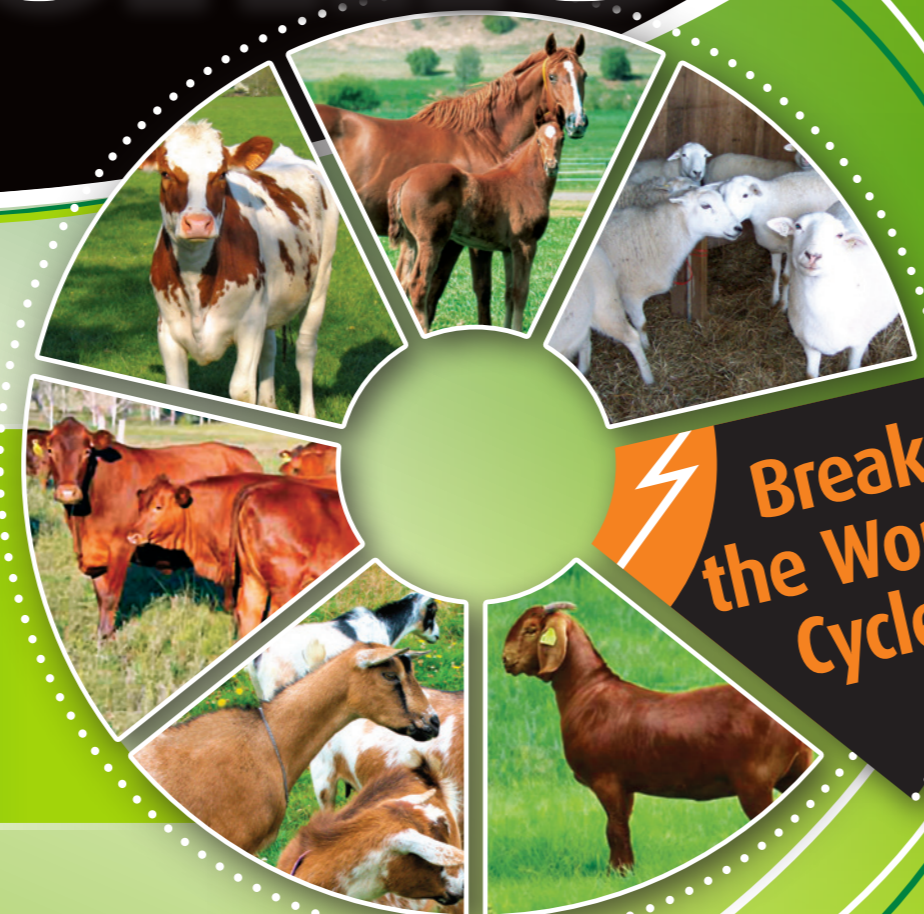
*Contains a minimum of 500,000 Colony Forming Units/gram of active ingredient.

**Contains Benzoic Acid as a preservative.

Biological control product for further mixing into feed, feed supplements, premixes or concentrates and containing spores of a fungus that captures and consumes the labeled infective worm larvae (including chemical/anthelmintic multi-resistant larvae) within the manure of grazing animals

Net Weight: 15lbs (6.8kg)

EPA Reg. No. 91253-1 EPA Est. No. 91253-AUS-001



Breaks the Worm Cycle

**FIRST AID:
IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information 24 hours per day, 7 days a week.

PRECAUTIONARY STATEMENTS:

Hazards to Humans

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear:

- protective eyewear
- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Mixers/loaders and applicators must wear a NIOSH-approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT: Read the entire label before using this product.

USE RESTRICTIONS: Not for use in medicated feed. Not for use in free-choice feeds. Do not feed undiluted. Not for direct consumption. Intended for further mixing into feed, feed supplements, premixes or concentrates.

DOSAGE AND ADMINISTRATION: Thoroughly mix the required amount of BioWorma® into feed, feed supplements, premixes or concentrates at 0.1 ounce product per 100 pounds animal weight, up to 1200 pounds, using the heaviest animal in the group to determine the appropriate amount of BioWorma® to use. When the largest animal is greater than 1200 pounds, use an additional 0.1 ounce of BioWorma® for each 100 pounds of bodyweight.

Dose BioWorma® according to bodyweight. For oral administration.

Bodyweight* (lbs)	25	50	100	200	300	400	500	750	1000	1200
Usage rate** (oz. per animal per day)	0.025	0.05	0.1	0.2	0.3	0.4	0.5	0.75	1.0	1.2

*Apply according to heaviest animal in the group.

**Use additional 0.1 oz. for each 100 lbs above 1200 lbs.

1. Treat animals with a suitable oral, injectable, or pour-on wormer/anthelmintic to rid the animals of worms, then begin administration of BioWorma®.
2. Move the treated animals onto low worm pasture (that is, pasture that has not been grazed by the same animal species for a minimum of 6 weeks).
3. The most worm-susceptible are young animals (from 3 months up to 18-24 months of age) and periparturient females (last month of pregnancy and while producing milk), as they are the most likely to have less resistance to worm infestation due to low immunity. Do not underestimate pasture contamination by adult stock, even animals with low fecal egg counts (FECs), considering the volume of fecal material adult stock place on pasture.
4. Thoroughly mix BioWorma® with feed, feed supplements, premixes or concentrates, and commence daily administration of the resultant mixture to minimize pasture infectivity and maintain the low worm status of the animals.
5. BioWorma® will begin to work within the first day and may be fed continuously when warm, moist climatic conditions are conducive to parasitic nematode activity.
6. BioWorma® is for use during periods when conditions are conducive to larval development and transmission onto pasture at temperatures above 40° Fahrenheit (5° Celsius).
7. Use BioWorma® in conjunction with the specified worm management strategy for your area by contacting your Veterinarian, Animal Health Advisor or Government Advisory groups for a strategic Integrated Parasite Management (IPM) plan. It is important to consider the principles of refugia.
8. Periodically check the worm burden and monitor the effectiveness of the worm management system. Options include fecal egg counts (FECs), the fecal egg count reduction test (FECRT) and/or identifying worm species by using fecal larval cultures (FLCs). Re-treatment with an effective chemical wormer may be indicated (consult your Veterinarian).

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place (≤86°F; ≤30°C) and out of direct sunlight, and keep away from heat sources for up to 24 months from date of manufacture. Store only in original container in an area designated for pesticide storage. Keep out of reach of children. After storage times under the specified conditions have been exceeded, do not use and dispose of product in accordance with the instructions below.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING Nonrefillable container. Do not reuse or refill this container. Completely empty bag into equipment used to mix the product with feed, feed supplements, premixes or concentrates. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

© BioWorma is a registered trademark of International Animal Health Products Pty. Ltd.
© The Australia/World symbol is a registered trademark of International Animal Health Products Pty. Ltd.
© Copyright 2018. All Rights Reserved. Patent Pending.

CONDITIONS OF SALE: Seller warrants that this product consists of the ingredient specified and is reasonably fit for the purposes stated on this label when used in accordance with the directions under normal conditions of use. No one is authorized to make any other warranty or guarantee concerning this product. To the extent consistent with applicable law, any liability arising from the handling, storage and use of this product is limited to replacement of product or refund of purchase price.

IMPORTANT NOTICE – TERMS OF USE OF BIOWORMA®
International Animal Health Products Pty. Ltd. owns the intellectual property rights in the biological control, *Duddingtonia flagrans* strain IAH 1297, which this product contains. This product is supplied solely to Feedmills, Premixers and Veterinarians to be further mixed with feed, feed supplements, premixes or concentrates, and administered to grazing animals via their finished products, in accordance with the manufacturer's instructions. It is not to be used for any other purpose, including, without limitation: (a) manufacturing the product or its biological control on a stand-alone basis; (b) isolating, purifying or culturing the biological control; or (c) extracting, replicating or modifying any part of the biological control. This product is sold on the express condition that it must be used in accordance with the manufacturer's instructions for use. To the extent consistent with applicable law, no warranty, whether expressed or implied, is given for any and all damages, which may arise for goods not used in accordance with the manufacturer's instructions.

Lot No:

Manufactured on:



Manufactured by:
International Animal Health Products Pty Ltd
18 Healey Circuit, Huntingwood, NSW, 2148, Australia
Telephone: (61-2) 9672 7944 **Facsimile:** (61-2) 9672 7988
Website: www.iahp.com.au **Email:** info@iahp.com.au



Ver. 05/2018USA