Remedy against thrips and animal parasites

Summary of the technology:

- Natural extract with anti-thrips activity (biopesticide), antiseptic (biocide) and antiparasitic.
- A biotechnological production method has been developed, so that production it is not dependent on the natural source.
- More effective than commercial products against endoparasites in animals.
- No resistance from pathogens.
- Enviromentally-friendly and safe for human and animal health.

The extract (obtained from a natural source) clearly shows **activity against thrips** (*Frankliniella occidentalis*), a plague with a deep impact on a wide variety of crops, especially fruits, vegetables and flowers, and for which there are no effective alternatives. It is also a **Biopesticide**.

Furthermore, it has **antiparasitic** effects against endoparasites, like helminths (genus *Haemonchus*) and coccidia (genus *Eimeria*), that affect livestock and pets.

Applications:

- Biopesticide against thrips
- Antiseptic/ biocide for veterinary use.
- Veterinary drug against endoparasites.
- Feed supplement for the prevention/ or treatment of infections caused by helminths and coccidias.

Protection:

Publication number: ES2365231
Priority date: March 11, 2010
Protection Level: National (Spain)
Processing Status: Granted patent

State of development:

In vitro activity studies have been completed.

In vivo efficacy has been proved.

A method for obtaining the extract using *in vitro* cultivation technology has been developed. This allows us to produce the biomass independent of the natural source.

The company offers the technology of the patent with the intention to join forces with the licensee to help establish the product in the marketplace.

Keywords:

insecticide, pesticide, anti-thrips, biopesticide, antiparasitic, antihelmintic, nematicide, anticcocidiosic, antiseptic and biocide.

Relevance:

- **Powerful pesticide: eliminates 100% of thrips larvae at low concentrations (<5 mg/ml).**
- **More effective than the commercial antiparasitic product Levamisole**, with the added advantage that it does not lose activity after washing.
- No observed resistance, unlike most of its competitors on the market. The likelihood of resistance developing is low, as the extract contains several substances.
- Enviromentally-friendly and safe for animals. The traditional use of the whole plant in Canarian livestock confirms the absence of toxicity in ruminants and other animals.
- Compatible with ecological livestock rearing and farming.

Collaboration sought:

- To license the technology.
- To establish a collaborative R & D project with other companies (or research institutions) in order to open new lines of research, or implement technological developments.

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