Ivermectin, HRP conjugate

DAG1207
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview
Ivermectin, HRP conjugate

Antigen Description
Anthelmintics or anti-helminthics are a class of drugs that are effective against a range of intestinal parasitic worms (helminths). Parasitic helminths must maintain an appropriate feeding site. Nematodes and trematodes must actively ingest and move food through their digestive tracts to maintain an appropriate energy state; these together with reproductive processes require a well defined and developed neuromuscular coordination. Anthelmintic treatment is a multi-targeting system designed to interfere with the integrity of parasite cells. The pharmacologic basis of the treatment for helminths involves the targeting of neuromuscular coordination, or protective mechanisms against host immunity, which lead to starvation, paralysis, and expulsion of the parasite. The benzimidazole class of drugs were introduced in 1961 and interfere with the parasite’s ATP pathway on a cellular level. They bind to a specific building block called b-tubulin and prevent its incorporation into certain cellular structures called microtubules, which are essential for energy metabolism.

Source
Anthelmintics

Conjugate
HRP

Form
concentrate

Characteristic
Each conjugate comprises antigen covalently bound to horseradish peroxide and is suitable as a tracer in immunoassay development

Applications
ELISA, Immunoassays, Development of Rapid tests and other immunoassay, antibody recognition assays

PACKAGING

Storage
Can be stored at 2-8°C for up to 3 months and at -20°C for longer term storage.

BACKGROUND

Introduction
Ivermectin is a broad-spectrum antiparasitic agent. Ivermectin and other avermectins are macrocyclic lactones derived from the bacterium Streptomyces avermitilis. Ivermectin kills by interfering with nervous system and muscle function, in particular by enhancing inhibitory neurotransmission. The drug binds and activates glutamate-gated chloride channels (GluCls). GluCls are invertebrate-specific members of the Cys-loop family of ligand-gated ion channels present in neurons and myocytes.

Keywords
Ivermectin; Stromectol; Ivomec i; Mectizan; Ixaverm; 22,23-dihydroavermectin B1a + 22,23-dihydroavermectin B1b; Mectizan; Uvemec; Vermic; Zimecterin

REFERENCES