



Product Datasheet

Product Name Toxoplasma Gondii ROP4 (RH2) Mosaic Recombinant

Cata No CB501131

Source

Synonyms

Description

The life cycle of *Toxoplasma gondii* has two phases. The coccidia like takes place only in members of the Felidae family which makes these animals the parasite's primary host. The asexual part of the life cycle can take place in any warm-blooded animal, like other mammals(including felines) and birds. *T. gondii* constructing daughter scaffolds within the mother cell. In the intermediate hosts (including felines), the parasite invades cells, forming intracellular so-called parasitophorous vacuoles containing bradyzoites, the slowly replicating form of the parasit. Vacuoles form tissue cysts mainly within the muscles and brain. Since they are within cells, the host's immune system does not detect these cysts. Resistance to antibiotics varies, but the cysts are very difficult to eradicate entirely. Within these vacuoles *T. gondii* propagates by a series of binary fissions until the infected cell eventually bursts and tachyzoites are released. Tachyzoites are the motile, asexually reproducing form of the parasite. Unlike the bradyzoites, the free tachyzoites are usually efficiently cleared by the host's immune response, although some manage to infect cells and form

bradyzoites, thus maintaining the infection.

The E.coli derived recombinant artificial mosaic protein contains the ROP4 (RH2) immunodominant regions, the protein is fused to Glutathione transferase.

Purity

Protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation

25mM Tris-HCl pH 8.0, 5mM Glutathione, 1.5M urea and 50% glycerol.

Stability

Five years frozen. One month in solution at room temperature.

Applications

Toxoplasma antigen is suitable for ELISA and Western blots, excellent antigen for detection of *Toxoplasma gondii*- with minimal specificity problems.