Abstract

Metabolic (excretion/secretion) antigen was obtained from sheep infected with Fasciola hepatica, with a 1005 µg/µL of protein concentration, composed principally by proteins of molecular weight between 1.2 and 170 KDa. Bands of 170, 150, 31, 24, 18-14 and 10 kDa were detected. With this antigen an ELISA test was developed and the cut off was determined in 0.140. We evaluated 33 serums of patient with fascioliasis confirmed by visualization of eggs in feces, 177 serums of persons without fascioliasis from endemic rural areas of Cajamarca and 88 serums of patients with others parasitic and bacterial infections. We found a 97.0% of sensitivity, 96.6 specificity, 78.1% predictive positive value, 99.6 % predictive negative value. In 9/88 serums was found cross reactions. We recommended the implementation and use of this test for the fascioliasis diagnosis.

Keywords

Fascioliasis/diagnosis, Fasciola hepatica, Immunologic test, Sensitivity and specificity, Peru (source: MeSH NLM).