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A 30 KDa mannosyl glycoprotein in the diagnosis of experimental trichinosis in rats

Eman H Abdel-Rahman, Mona S Mahmoud and Heba F El-Zan
National Research Center, Egypt

A method of affinity chromatography was adopted to isolate mannosyl glycoprotein antigen from *Trichinella spiralis* crude larval antigen using Concanavalin A (Con A) column. The selection of Con A column was based on the existence of mannose sugar in *T. spiralis* larval extract as proved by indirect hemagglutination inhibition assay. The isolated mannosyl fraction was evaluated by ELISA and Western blot techniques for the serological diagnosis of trichinosis in experimentally infected rats. Either early in one week post infection (P.I.) or in the late stage, six weeks P.I., the isolated mannosyl fraction proved higher potency in the diagnosis of rat experimental trichinosis than crude extract by ELISA. The isolated mannosyl fraction resolved into four bands of 65KDa, 54KDa, 30 KDa and 11 KDa compared with multiple bands of crude extract as observed by SDS-PAGE. A 30 KDa mannosyle glycoprotein(s) isolated from *T. spiralis* crude larval extract proved potentials in early as well as late diagnosis of experimental trichinosis in rats as proved by Western blot.

Biography

Eman H Abdel-Rahman is currently working as a Professor in National Research Center, Dokki, Cairo, Egypt. In 1990, she was appointed as an Assistant Researcher at the National Research Center, Dokki, Cairo, Egypt. In 1995, she was appointed as a Researcher at the National Research Center, Dokki, Cairo, Egypt. In 2000, she was appointed as an Associate Professor at the National Research Center, Dokki, Cairo, Egypt. She received her BSc in Zoology from Cairo University, Egypt. She got her MSc in Immunoparasitology in 1990 from Cairo University, Egypt. She obtained her PhD from the Cairo University, Egypt in Immunoparasitology. Her current research interests are Immunoparasitology, Biological Control, DNA Technology, Glycoprotein Antigens, and Parasitology.

emanhussein1@hotmail.com

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