

شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو

بسم الله الرحمن الرحيم





MONA MAGHRABY



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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جامعة عين شمس التوثيق الإلكتروني والميكروفيلم قسم

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Cairo University Faculty of Veterinary Medicine



Cairo University

Investigation into the Use of SeM Protein as Immunogenic Material against Equine Strangles Disease

A **thesis** presented by

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(B. V. Sc., Benha University, 2010; M.V.Sc, Cairo University, 2016)

To

Cairo University, Faculty of Veterinary Medicine,

For the Degree of PhD in Veterinary Medical Sciences (Microbiology)

Under Supervision of

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Chief Researcher of Bacteriology Department Animal Health Research Institute

(2020)

Cairo University
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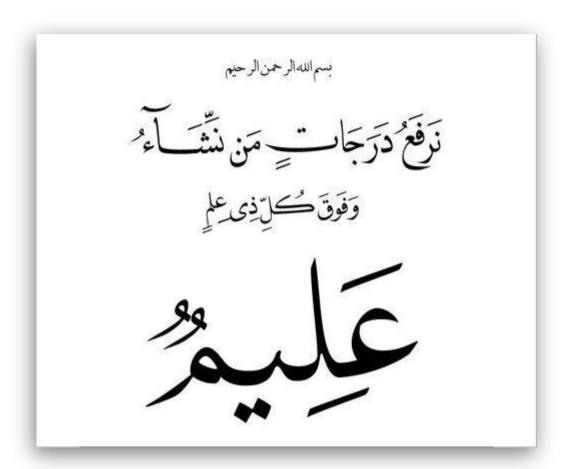
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Abstract

SeM protein extracts were prepared from locally isolated *S.equi* subspecies equi. Modification by further centrifugation of both the supernatant and sediment of the SeM acid extract was made. The supernatants of both centrifugations were electrophoretically using SDS-PAGE, including SeM acid extract sediment (SeM1), SeM acid extract supernatant (SeM2), supernatant from centrifuged SeM1 (SeM3), and supernatant from centrifuged SeM2 (SeM4). Electrophoresis of SeM1 revealed the appearance of a band at MW 70.9 kDa, While SeM2 revealed the presence of 7 bands at MW of 105, 87.8, 70.9, 61.1, 44, 37.9 and 18.4 kDa. Five bands were detected in SeM3 at MW 70.9, 58.9, 37.2, 29.8 and 18.3 kDa, and SeM 4 showed four bands at MW of 72.0, 58.6, 29.8 and 18.0 kDa. Antibody titer was detected in the sera of rabbits immunized by SeM3 and SeM4 using indirect ELIZA.

Dedication

My humble effort is wholeheartedly dedicated to

My beloved **mom** for her support, belief in my abilities and her hands in prayers for my success and great patience and goodwill throughout the fairly long period of study and work. She gave me strength when I thought of giving up.

My beloved **dad** for his motivation to take up this program of studies, financial support and his belief in my abilities throughout all my schooling.

My sister and brother who continually provide their moral, spiritual and emotional support.

Karma (my niece) for being a source of happiness and light in my life.

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