البحث الأول

العنوان باللغة العربية: تحفيز التشرنق فى دودة الحرير التوتية باستخدام الينسون

العنوان باللغة الإنجليزية: Spinning stimulation of silkworm , *Bombyx mori* L. by *Pimpinella anisum*

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الملخص الانجليزي :

The present work has been carried out at Plant Protec. Dept. Fac. of Agric., El Fayoum Univ. during spring season of 2014 to study the effect of *Pimpinella anisum* as food additives on spinning of silkworm, *Bombyx mori* L. Dried seeds of *P. anisum* were crushed and dissolved in distilled water to prepare different concentrations (5, 10, 15, 20 and 25 mg/ml.). In the present study, results showed that, the concentration 20 mg/ml. of *P. anisum* occupied the first category to improve the most studied parameters of *B. mori* L. when comparing to control. Where 5^{th} instar mortality percentage recorded 7% compared to 10% in control . 5^{th} instar larval duration were 10.40 days compared to 10.44 days in control. Cocooning percentage were 96.82% compared to 92.22% in control and cocoon indices were 1.192 g, 0.223 g and 18.70% for cocoon, cocoon shell weights and cocoon shell ratio comparing to 1.008 g, 0.164 g and 16.26% for the control respectively. Total haemolymph protein registered 75.90 mg/ml compared to 67.52 mg/ml in control. Protease in enzyme were 64.33 µg alanine/min/ml compared to 57.21 µg alanine/min/ml. control and silk productivity were 2.434 cg/day compared to 1.866 cg/day in control.