

ISOLATION AND PARTIAL PURIFICATION OF PHOSPHOLIPASE FROM VENOM OF *ECHIS CARINATUS* AND STUDY OF ITS EFFECT ON LIPID PROFILE OF HYPERCHOLESTEROLEMIA MALE RATS

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ABSTRACT

The current study included isolation and purification of phospholipase from *Echis carinatus* venom that obtained from Said Dakhell after drying of venom, the purification steps were performed on crude enzyme comprise ion exchange chromatograph use sephadex G-25, after that gel filtration chromatography by use carboxy methyl. Nine groups of male rats (*Rattus norvegicus*) used one group (negative group) and two groups of all for induced high cholesterol diet for and two groups for injected by purified enzyme, and other groups for prevention and induced high cholesterol and injected by purified enzyme. The results showed a significant increase in the body weight of male rats in groups which induced high cholesterol fed and a significant decrease in the body weight of male rats in groups treated with phospholipase.

The results were recorded a significant increase in concentrations TCH, TG, VLDL, LDL and Atherogenid Index in groups treated with cholesterol and a significant decreasing in groups injected with phospholipase, While HDL concentration showed a significant decreased in groups treated with cholesterol and a significant increasing in groups injected with phospholipase.

KEYWORDS: Phospholipase, *Echis Carinatus*, Lipid Profile