Spasmolytic Effects of *Salvia triloba* Leaf Extract on Smooth Muscles of the Duodenum in Rats

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**ABSTRACT** *Salvia triloba* is considered one of the medicinal plant that is frequently used in Jordan and the Middle East in alternative medicine against a number of diseases, including gastrointestinal disorders. The effects of *Salvia triloba* leaf aqueous extract on the isolated smooth muscles of the rat duodenum were investigated. Isolated organ bath was adopted. The specimens were pre-contracted with reagents such as acetylcholine, potassium chloride (KCl), and barium chloride (BaCl₂). Then *Salvia triloba* extract was added in concentrations of 0.1–3mg/ml. The contraction-inhibition signals were collected and the effect was traced and analyzed. The aqueous *Salvia triloba* leaf extract inhibited the spontaneous contraction of rat duodenum in a dose-dependent manner, especially in the inhibition of acetylcholine. No significant inhibition was noticed with either KCl or BaCl₂. The aqueous *Salvia triloba* leaf extract showed antispasmodic action which took its effect through the inhibition of acetylcholine that explained its use traditionally in alleviating gastrointestinal disorders.