

*Salvia officinalis*

(2011 / 10 / 31 2011 / 6 / 6 )

*Salvia officinalis*

<sup>3</sup> / 20 15 10 5

(Spasmolytic)

10 5

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<sup>3</sup> / 20 15

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## **Effects of Aqueous and Alcoholic Extraction of *Salvia officinalis* on Mechanical Activity of Smooth Muscle of Ileal Rabbit**

**Raja M. Al-Annaz**  
*Department of Biology*  
*College of Science*  
*University of Mosul*

### **ABSTRACT**

The effect of different doses of aqueous (boiled) and alcoholic extraction of *Salvia officinalis* on rhythmic spontaneous activity of ileal smooth muscle of rabbit was investigated. The results indicate that *Salvia officinalis* has a spasmolytic effect on the smooth muscle of ileum of Rabbit. The dose 5, 10, 15, 20 mg/ml of aqueous (boiled) extract causes an inhibition of muscles rhythmic contraction. While the methanolic extraction of *Salvia officinalis* 5, 10, 15, 20 mg/ml causes an increase in the duration of peristaltic movement (contraction and relaxation) of smooth muscle. This study is proved how the aqueous (boiled) extraction inhibits the peristaltic movement while the effect of methanolic extraction is opposite, if increase the duration of contraction and relaxation period, due to the active component (flavonoids) of *Salvia officinalis*.

**Keywords:** *Salvia officinalis*, smooth muscle.

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Mint family

Labiatace

.(Antonio *et al.*, 2004)

Sulvare

1000

.(2006 )

.(Spiridon E. Kintzios, 2000)

Thujone, Flavonoids,

(Tannin 8.7% and Resin)

Phenol, Terpenoid, Cineole

.(Pierozan *et al.*, 2009; Al-Hsiang *et al.*, 2002)

Velikovi *et al.*, 2007; Velikovi *et al.*)

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.(al., 2002

.(2006

(Cheij, 1984)

.(2000 )

.(1999 )

Tonic contraction

Lincoln, ) Phasic contraction

.(2005

.( )

.*Oryctolagus cuniculus*

(Tyroid)

3-2

.7.3

°37

10

½

Organ bath

Student kymograph

.(<sup>3</sup> 50)

( )

/

(Grand *et al.*, 1988)

.(Rioseet *al.*, 1987)

.(Verpoorte *et al.*, 1982)

<sup>3</sup> / 20 15 10 5

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(Tyroid)

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(Δ)

Spike

4 3 2 1

.(•)

8 7 6 5

( )

(Δ)

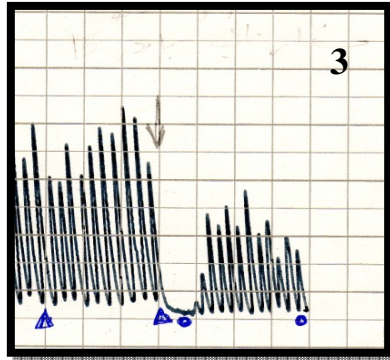
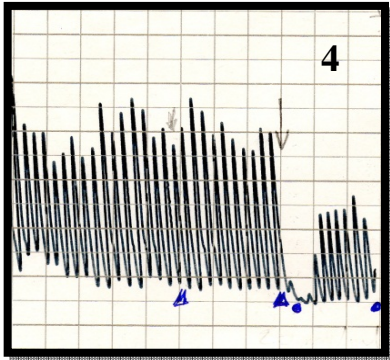
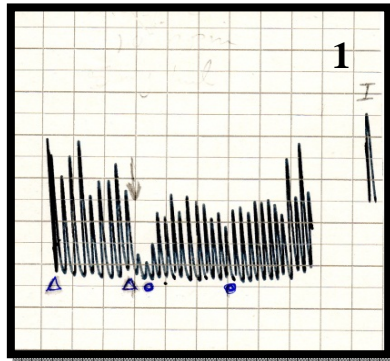
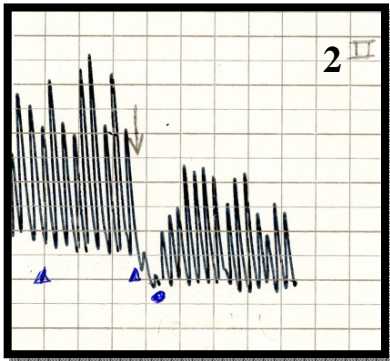
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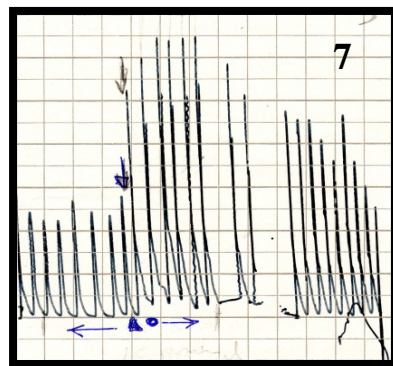
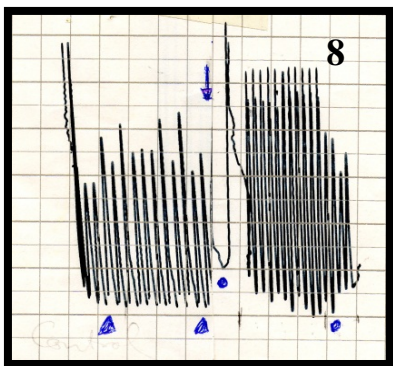
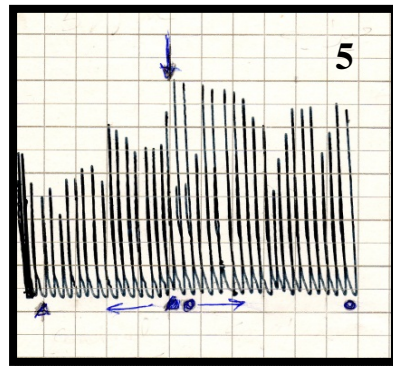
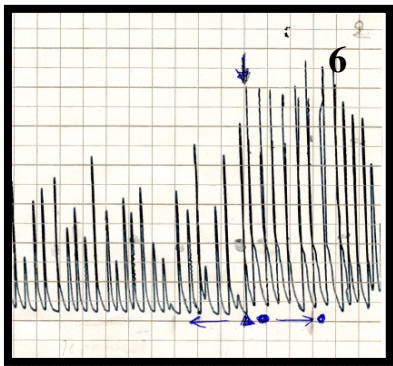
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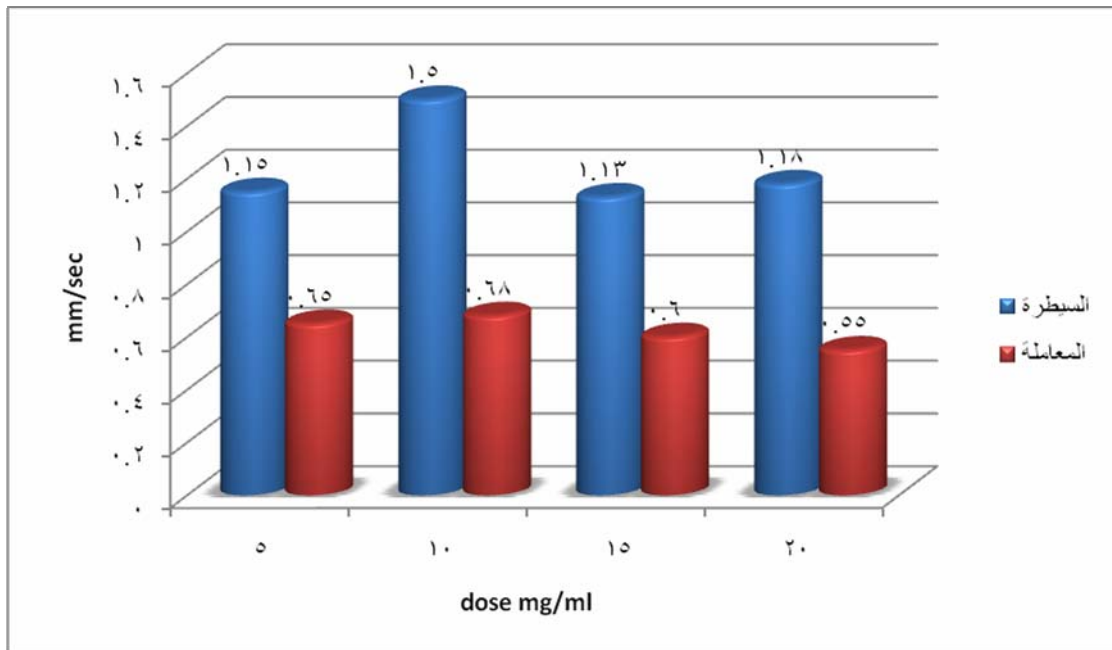


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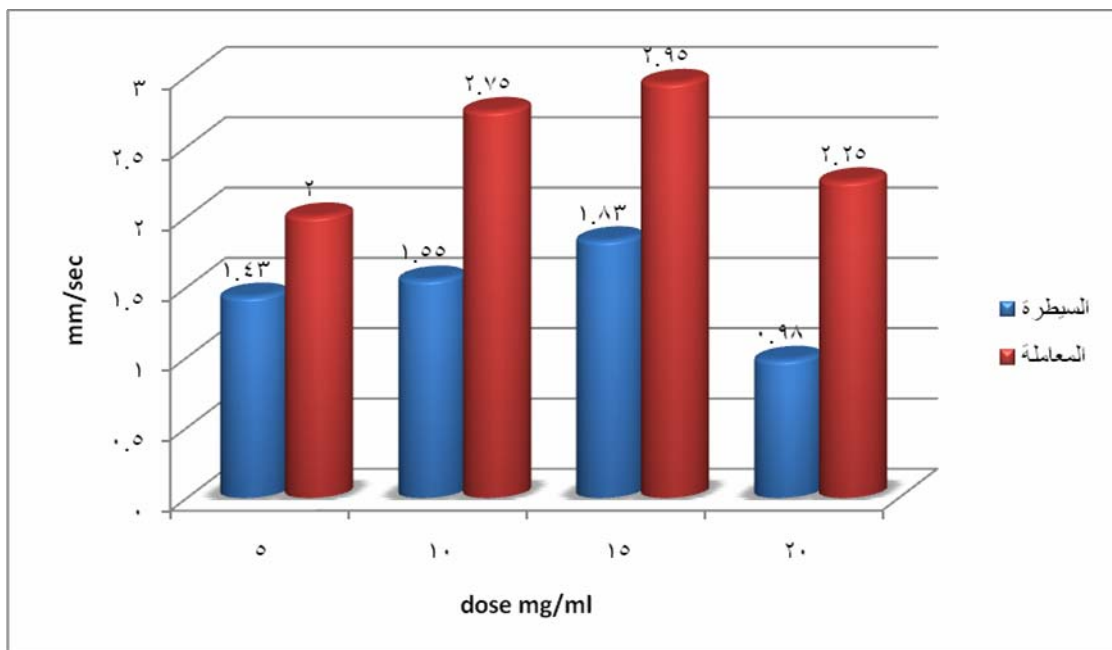
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Saad ) (1989 )  
 %40 .(Saad, 1980) (et al., 1988  
 %80 (Fransworth et al., 1985)  
 (WHO,1993)

Gilani et al., )  
 (2004  
 (Emendorfer et al., 2005 ; Io, U., A. et al., 2003)  
 (Spasmolytic)

.(Abe et al., 1996)  
 .(Barnes et al., 2002)  
 .(Stahl-Biskup et al., 1999) ( )  
 (Chevallier, 2001)

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.(Emendorfer et al., 2005)

.(1989)

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.29-26 (1)

.(1999)

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.(2006)

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