

מדינת ישראל / משרד החקלאות ופיתוח הכפר
State of Israel / Ministry of Agriculture and Rural Development

Agricultural Research Organization
The Volcani Center
Institute of Plant Protection
Department of Entomology



מינהל המחקר החקלאי
מרכז וולקני
המכון להגנת הצומח
המחלקה לאנטומולוגיה

Prof. Murad Ghanim

פרופ' מוראד גאנם

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Experiments report submitted to Yoav Nitzav with the material " **ענן רוזה 618**"

1. Effect of ענן רוזה 618 on *Bemisia tabaci* adults preference

	No. of adults	
	Treated plant	Untreated plant
Total	100	
After 24h	1	65

One hundred *B. tabaci* adults (3-5-d old) were exposed for 24 hrs to two cotton seedlings (kept in a rearing box), one was treated with ענן רוזה 618 and another was untreated seedling. No of live adults on treated and untreated plant was then determined.

2. Effect of ענן רוזה 618 on *Bemisia tabaci* adults

Formulation	No. of adults	Mortality, % ± SEM
Control	82	6±3a
ענן רוזה 618	78	92±4b

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Cotton seedlings treated with 618 ענן רוה were exposed to adults *B. tabaci* for 48hrs. Mortality was then determined. Data are averages \pm SEM of 5 replicates 15-18 each. Control is treatment with water.

3. Effect of 618 ענן רוה on 1st instars *Spodoptera littoralis*

Formulation	No. of L ₁	Mortality, % \pm SEM
Control	49	0a
ענן רוה 618	50	96 \pm 4

Cotton seedlings treated with 618 ענן רוה, were exposed to *S. littoralis* L.1 for 3 days. Mortality was then determined. Data are averages \pm SEM of 5 replicates of 9-10 larvae each. Control is treatment with water.

4. Effect of 618 ענן רוה on *Myzus persicae* 1st instars

Formulation	No. of aphids	Mortality, % \pm SEM
Control	50	20 \pm 5a
ענן רוה 618	50	80 \pm 9b

Cotton seedlings treated with 618 ענן רוה were placed separately in Petri dish containing agar (to increase moisture). Ten 1st-instars nymphs were placed each Petri dish. Mortality was determined after 3 days. Data are averages \pm SEM of 5 replicates of 10 larvae each. Means followed by the same letter do not differ significantly at P=0.05. Control is treatment with water.

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