

*Beauveria*  
*Oligonychus afrasiaticus* *bassiana*(L)  
 (Acari: Tetranychidae)

	*	**	*	*
	-			*
	-			**
%20)				
		<i>Beauveria bassiana</i> (BI)		(
	72	%41.9 44.5		
<i>B. bassiana</i>		<i>B. bassiana</i> (BI)		
		(72 24)		(BI)
	72	%85.09 87.03	24	%68.3 69.8
72				
<i>B. bassiana</i>			%85.2 87.1	
	72			(BI)
	%85.3 86.7	<i>B. bassiana</i> (BI)		
<i>B.</i>				
25 23.7 24 18.7	/	50	<i>bassiana</i> (BI)	
			30 14 7 3 1	/ 26.7
30 7 3 1				
		14		
			<i>B. bassiana</i> (BI)	
			/ 16 19 17.6	
			/ 51 47.3 58.7	

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**The Role of Some Chemical Insecticide and fungal  
Suspension of *Beauveria bassiana* in control The Dust  
Spider Mite *Oligonychus afrasiaticus* (Acari:  
Tetranychidae) in Date Palms**

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**Summery**

The results of lab study showed that the treatments by the mixture (Byby5%20EC insecticide + fungal isolate *Beauveria bassiana*(BI)) & Byby%20EC insecticide alone was the best treatments in eggs mortality which amounted to % 41.9 & 44.5 respectively 72 hrs after treatment as well as those treatments gave the best results in killing the immatures which was about % 68.3 & 69.8 (24) hrs after spraying & % 87.3& 85.9 (72) hrs after spraying ,& those treatments gave the same results for the nymph killing percentage which was % 87.1& 85.2 (72)hrs after spraying, respectively . while concerning the adult stage ,the rate of killing reached %85.3& 86.3 (72)hrs after spraying ,using the mixture (Byby%20EC insecticide + fungal isolate *B. bassiana*(BI)) and byby%20EC insecticide alone, respectively . In terms of field results , treatment by the mixture ( byby%20EC insecticide + *B. bassiana*(BI)isolate)) showed the best results in eggs number reduction , from (50)eggs/fruit to 18.7, 24, 23.7, 25& 26.7 egg/fruit after 1, 3, 7, 14 & 30 days of treatment respectively with a morel significant difference . while there was no significant difference between the two treatments to limit population density of adults 1,3,7 & 30days after treatment, where there was a moral significant difference between the two treatments (14) days after spraying . the treatment by mixture (byby%20EC insecticide + *B. bassiana*(BI)isolate ) and Byby%20EC insecticide gave the best results in decreasing the adults number ,decrease percentage was 16, 19 & 17.6 mite/fruit , respectively in compare with the average of its density prior to the treatment which was 58.7, 47.3 & 51 mite/fruit , respectively.

1982 ) *Oligonychus afrasiaticus* (McG.) ( )  
.(1985

)  
.(1984  
.(1985 )

Abul-Hab)  
(1999) .(1998

(BC) *Beauveria bassiana* (BI)  
.(2002 )

**(BI) *B. bassiana***

Dinotuton (Agarelte 40%)%40  
( %20) Bye Bye 20EC  
*B. bassiana* / 1 1.5  
(BI)

P.D.A

0.5

PDA  
 Cork Borer  
 5 10  
 Haemocytometer / 10<sup>6</sup>  
 BI  
 ( )1:1  
 5 50  
 2  
 Tangle Foot  
 (1979 )  
 48  
 20  
 1±27  
 %70-60  
 Schneider Orell .(1999 ) 72  
 .(1993)  
 -  
 100× \_\_\_\_\_ = %  
 -100  
 C.R.D.  
 .(1980 )0.01 R.L.S.D.  
 : *B. bassiana*  
 20  
 BI  
 (72 48 24)  
 (1999 )  
 Schneider Orell

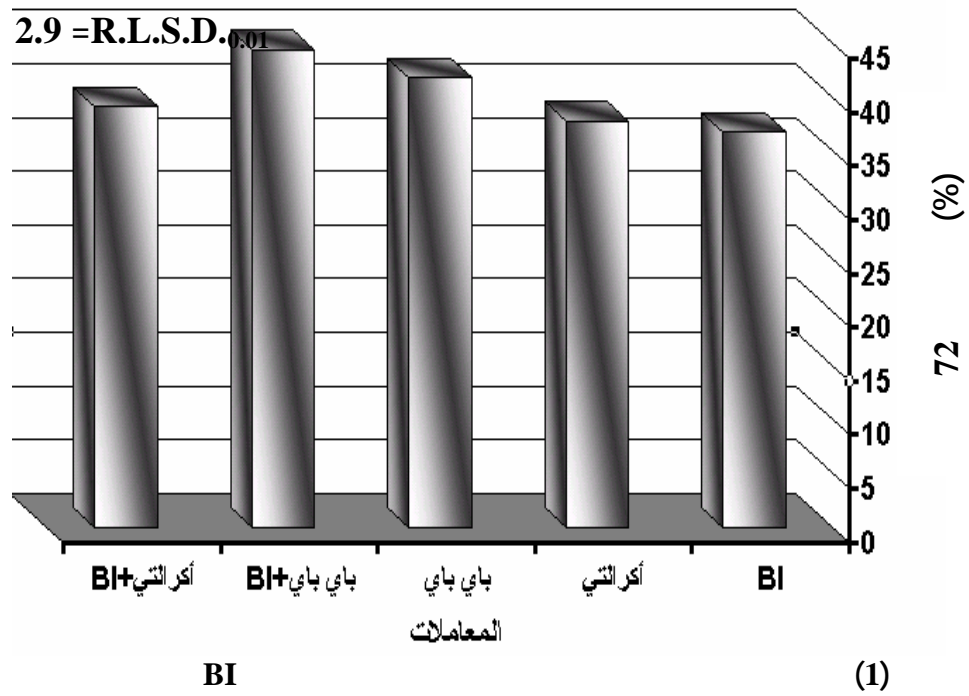
...

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R.L.S.D  
 .(19801  
 :  
 18  
 ( 10-7)  
 15  
 (X4)  
 30 14 7 3 1  
 R.C.B.D  
 (1999 )  
 )0.05  
 .(1980

**(BI) *B.bassiana***

:  
 (1)  
 %20 BI %20  
 %41.9 44.5  
 (1999)Campbell Lilley  
 (Apollo)Clofentezine  
*B.bassiana* (2002) (2000)Ivanova Sukhoruchenko



:

*B. bassiana*

(1)

BI	%20	24	72
BI	%68.3 69.8	%48.9	BI
BI	%85.09 87.03	%60.9	BI
BI	%20	24	72
BI	%68.9 69.4	72	BI
BI	%85.2 87.1	BI	%20



:

*B. bassiana*

(2)

/ 50

30 14 7 3 1 / 26.7 25 23.7 24 18.7

BI

%20

14 7 3 1 / 36 32.7 32 31 32 29 / 53.3

30

(3)

30 7 3 1

14

BI

%20

BI

%20

/ 19 17.6 16

/ 47.3 58.7 51

BI

.(2002 )

*B. bassiana*

(2)

/						
30	14	7	3	1		
36	32.7	31.3	32	29	53.3	<i>B. bassiana</i> BI
43.7	39.7	43	34	31	62.3	
30.7	26.7	26	24.7	22.3	41.7	
26.7	25	23.7	24	18.7	50	BI+
37.7	29.7	28.7	27.7	24	51.3	BI+
45	37.7	34.7	36	33.7	53.3	Control
7.6	5.3	8.9	7.2	7.8		R.L.S.D. <sub>0.05</sub>



*B. bassiana*

(3)

/						
30	14	7	3	1		
21.3	19	16.7	17.5	13.7	47.3	<b><i>B. bassiana</i> BI</b>
26.3	22.6	18	16	12.3	53.3	
21.7	17.6	16	13.7	9.7	58.7	
19.7	16	14	11	8.7	51	<b>BI+</b>
22	20.7	17.3	16.7	13.7	52.3	<b>BI+</b>
28.3	25	21.7	19	14	45	<b>Control</b>
N.S.	4.7	N.S.	N.S.	N.S.		<b>R.L.S.D.<sub>0.05</sub></b>

(1982)

(700).

(1999)

(Tetranychidae:Acari) *Oligonychus afrasiaticus* (McG.)

.50-41:(1)4

(1999)

*Aphis nerii*                      *Aphis fabae*

.30-17:(5)3

(1980)

(488).

(1999)

(Tetranychidae:Acari) *Tetranychus urticae*(Koch.)

(126)

- .(1992)  
 . (440)
- .(1993)  
 . (520)
- .(2002)
- Ommatissus*  
 .69-63:(5)7 .*binotatus lybicus*  
 .(576) .(1985)  
 .(1984)  
 . (402)  
 .(2002)  
 .(Tetranychidae:Acari) *Tetranychus urticae*(Koch.)  
 . (65) -  
 .(1979)  
 - *Tetranychus turkestani*(Ugar & Nik.)  
 . (119)
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