

***Planococcus citri* (Risso) (Hom.: Pseudococcidae)**

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(/ / : // :)

(Planococcus citri)

/

%

LC₅₀

LC₅₀

pH

/

/

.(Esmaili, 1991)

Planococcus citri

(Risso)

.(Zahedi, 1992)

Lucilia cuprina
(Whyrad *et al.*, 1994)
Reticulitermes flavipes
(GST)
(Xenobiotic)
GST
GST
(Monitoring)
(Scott, 1995)

C. tarsalis
(2000) Valles *et al.*
(Kollar)GST

Planococcus ficus
(Resistant Pest Manager News Letter, 2009)
(Denholm *et al.*, 2002)
MFO
(Ay & Gurkan, 2005; Martin *et al.*, 2002; van Leeuwen *et al.*, 2007; Paeporn *et al.*, 2004; Limoe *et al.*, 2007; Gunning *et al.*, 1996; Wheelock & Scott, 1992)

Culex
(Mouches *et al.*, 1990)
(Field *et al.*, 1988)
(Sequester)
(Devonshire & Moores, 1982)
(*Culex*) B₂ A₂
(Vaughan *et al.* B₂ *et al.*, 1995)

(Ay & Gurkan, 2005; Martin *et al.*, 2002; Clark, 2009; Bull & Pryor, 1992; van leeuwen *et al.*, 2007; Limoe *et al.*, 2007; Nayak *et al.*, 2002; Gunning *et al.*, 1996; Paeporn *et al.*, 2004; Wheelock & Scott, 1992)

LC₅₀

Tetranychus urticae Koch

Mononychellus progresivus Doreste

LC₅₀

/ > *M. progresivus*

(*Cucurbita pepo*)

()

Amblyseius LC₅₀

Oligota minuta limonicus Garman & McGregor

/ / Cameron

(Braun *et al.*,

.1987)

LC₅₀

LC₅₀

(EC25%)

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(

±

(:) :

±

(/ pH) (POLO-PC)

(Native polyacrylamide gel :Native PAGE electrophoresis) (NaH₂PO₄ + Na₂HPO₄) pH (V/V) X

(1992) Kono & Tomita / % g

X-100

pH

(1976) Bradford) pH / (/)

SDS (sodium dodecylsulfate) (Stat fax 3200)

LC₅₀ Van Aspern (1962)

LC₅₀ pH

LC₅₀ % LC₅₀) (LC₅₀)

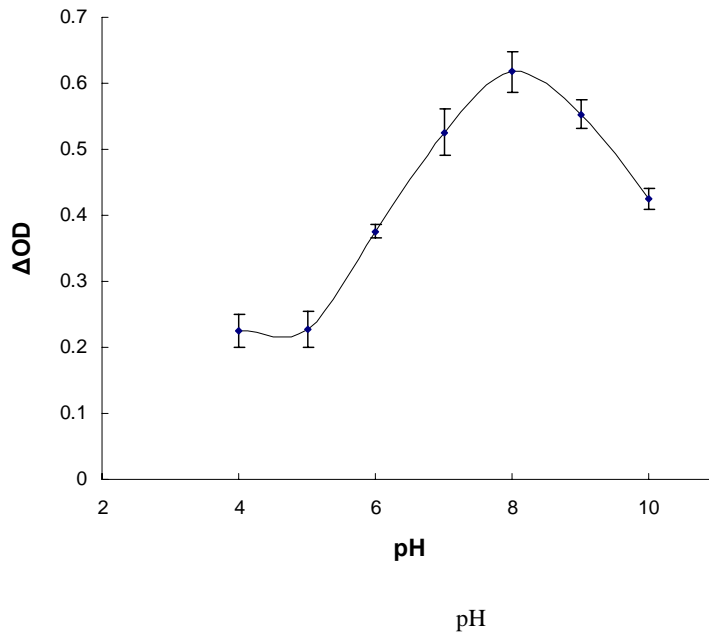
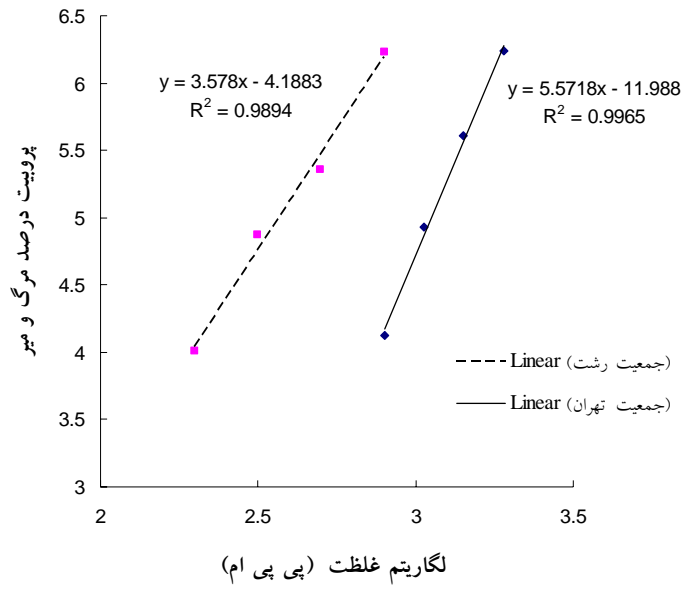
(2000) Picollo *et al.* / LC₅₀ (1-chloro-2, 4- CDNB (1974) Habig *et al.* dinitrobenzene)

LC₅₀) () CDNB (

Pediculus capitis (Anoplura: Pediculidae)

... :
) % /
 (
) *P. capitis*
 / / (
 MFO
 LD₅₀ (1999) Gunning et al. .
 ()
 (Topical application)
 / / *Helicoverpa armigera*
 LD₅₀ .
P. humanus capitis
 /
 Shimada et al. .(Audino et al., 2005)
 pH LD₅₀ (2005)
 pH
 pH.() / *Spodoptera exigua*
Boophilus microplus LD₅₀ (2002) Pridgeon et al. .
 / Canestrini (Acari: Ixodidae)
 Baker et al. .(Willadsen et al., 1987)
 (1998)
Anisopteromalus calandrae Howard MFO
 (Hymenoptera: Pteromalidae)
 pH= /
 4-methylumbelliferyl acetate
 (4-NPA) *M. progresivus* LC₅₀
 / pH
 pH (2007) Van Leeuwen & Tirry
T. urticae
 4-NPA *S. exigua*
P. humanus capitis

() ^c	(%) ^b	(%) ^a	LC ₅₀
() /	(/ /) / *	(/) /	
() /	d	(/ /) /	
			(ppm) a
			LC50 = b
			x ² % x ² c
			d
			% LC50 *



()

/

()

()

(1982) Devonshire & Moores .(Field *et al.*, 1988)

(¹⁴C-acid)

E₄

E₄

E₄

.(Devonshire & Moores, 1982)

Culex

.(Kono & Tomita, 1992)

(1993) Suzuki *et al.*

H. armigera

(Gunning *et al.*,

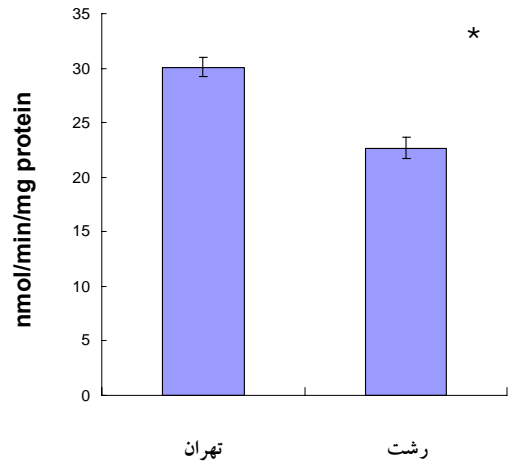
Aedes aegypti .1996)

MFO

Baffi *et al.* .(Paeporn *et al.*, 2004)

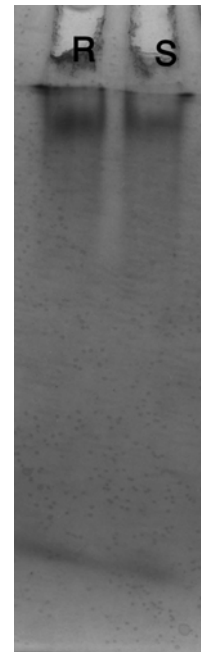
(2005)

B. microplus



%

*



(S)

(R)

()

.(Devonshire & Moores, 1982)

(Vial)

Reticulitermes flavipes (Kollar)

(Hoffman &

Fisher, 1994)

(Shono *et al.*, 1979)

(Bush *et al.*, 1993)

CDNB

()

Prapanthadara *et al.* .

LC₅₀

(2002)

(R^dR^p)

MFO

A. aegypti

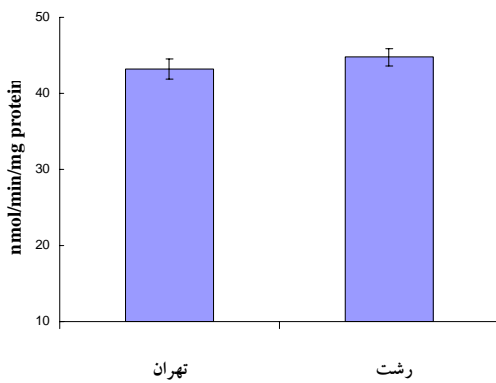
(2007) Ugurlu *et al.*

H. armigera

(2004) Paeporn *et al.*

MFO

A. aegypti



(Ay & Gurkan,

.2005; van leeuwen *et al.*, 2007)

(Tsagkarakou *et al.*,

.2009)

(2000) Valles *et al.*

(SE ±)

Reticulitermes flavipes

(Vial test)

(Kollar)

/

LC₅₀

UF

LC₅₀

ARS

/

/ ARS

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