

( )

*Meloidogyne javanica*

*Trichoderma viride*

//

*Trichoderma*

*Meloidogyne javanica*

*viride*

( % )

( )

*T. viride*

( )

( )

( % )

*Meloidogyne javanica*

*Trichoderma viride*

)

(

*Trichoderma viride*

*Meloidogyne javanica*

(*Meloidogyne javanica*)

(Single egg mass)

Rutgers

( )

(*Trichoderma viride*)

Single spore

PDA

(.)

( )

*Trichoderma*

*Rhizoctonia*

( ) *Fusarium*

*Pythium*

( ) *solani*

( ) *Sclerotinia rolfii*

( ) *Phytophthora*

*Trichoderma harzianum*

(.) *Trichoderma*

*T. harzianum*

Chitinase B(1.3) glucanase

( )

Protease

*Trichoderma*

Lipase

( )

*Trichoderma*

*T.*

(Egg mass)

*T. koninji harzianum*

*Meloidogyne arenaria*

*T.* T.12

*harzianum*

*T. harzianum*( )

(.) *Globodera rostochiensis*

( )

( )

*T. viride*

*M. javanica*

*T. viride*

*M. javanica*

)

(

( )

)

(

)

(

*M.*

*T. viride*

*javanica*

*M.*

*T. viride*

( )

*javanica*

*T.*

*M.*

*viride*

)

*javanica*

( )

( )

)

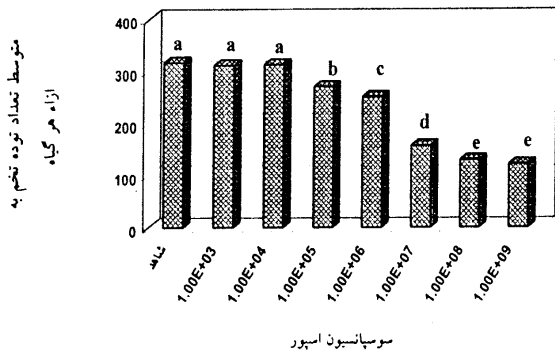
( )

( ) °C

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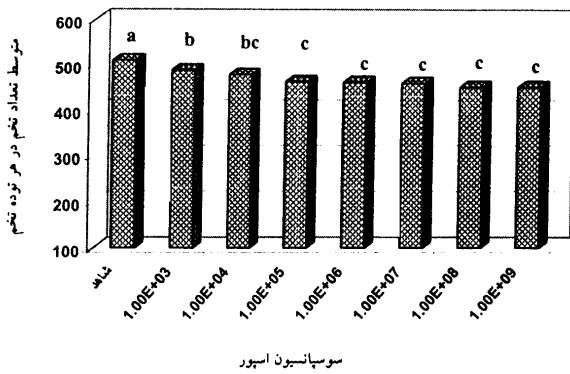
*Trichoderma*

*Meloidogyne javanica*

Roma VF

*viride*

(%)



*Trichoderma*

*Meloidogyne javanica*

Roma VF

*viride*

(%)

*T. viride*

*M. javanica*

4DAP

( )

15DAP

( )

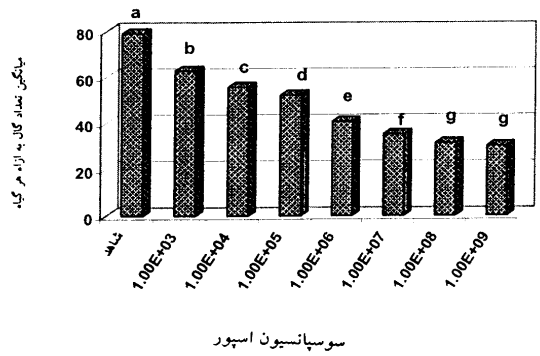
4DAP

15DAP

*T. viride*

*M. javanica*

( )



*Trichoderma*

( )  
Roma VF

*viride*

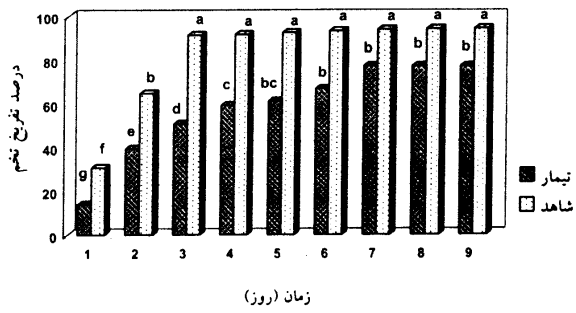
*Meloidogyne javanica*

(%)

(a)

(e)

(a)



*Trichoderma viride*

*Meloidogyne javanica*

(%)

*M. javanica*      *T. viride*

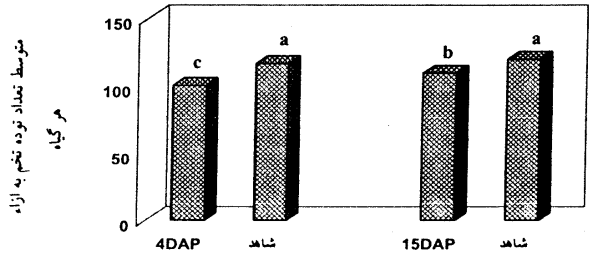
*Trichoderma viride*

*Meloidogyne javanica*

*T. viride*

*M.*

*T. viride*



مراحل بیولوژیک نماد

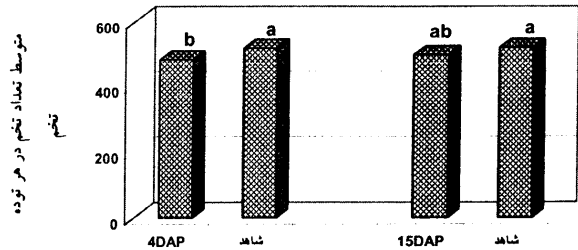
*Trichoderma viride*

*Meloidogyne javanica*

( )

Roma VF

(%)



مراحل بیولوژیک نماد

*Trichoderma viride*

*Meloidogyne javanica*

( )

Roma VF

(%)

*T. viride*

*M. javanica*

( a )

a )

( b )

(

*T. viride*

( ) *javanica*

( )

)

(

*T. viride*

*M. javanica*

*T. viride*

*T.*

*T. viride*

*viride*

*M. javanica*

*T. viride*

(4DAP)

(15DAP)

Chitin

( )

*T.*

Chitinase

*harzianum*

*T. viride*

*M. javanica*

4DAP

*T.*

*T. viride*

*M. javanica*

*viride*

(

)

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*Meloidogyne javanica*

f.sp. *lycopersici*

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