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**(*Botrytis cinerea*)**

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**(*Botrytis cinerea*)**

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**PDA**

(Eckert & Ratnayake,

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.1983)

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(Hay & Waterman, 1995) ) ( ( ( ( (Shahi et al., 2003)

(Daferera et al., 2000)  
(1996) Carta et al.  
/  
(*Botrytis cinerea* Pers.)  
(1997) Thanassoulopoulos & Yanna .

( )  
*B. cinerea*

(2004) Lanciotti et al. .

(1998) Reddy et al.

*Rhizopus stolonifer* (Ehreb.: Fr.) Link)  
(*B. cinerea* Pers.)

(<sup>1</sup> )

(2000) Daferera et al. . (Caccioni et al., 1998)

(*Penicillium digitatum* (Pers.: Fr.) Sacc.)  
(2002) Liu & Chu

*Monilia fructicola* L.R. Batra

...

:

) *Penicillium expansum* Link

) *B. cinerea* Pers. (

*Phialophora* *Mucor piriformis* Scop. (

(2003) Anthony et al.

*malorum* (Kidd & Beaumont) McColloch

(% / v/v)

*Pezicula malicorticis* (

( ) (H. S. Jacks.) Nannf.

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*Cladosporium herbarum* *Alternaria* spp.

.(Mari et al., 2003) (Pers.) Link

(2005) Martinez-Romero et al.

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(2007) Feng & Zheng .

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(*Alternaria alternata* (Fr. : Fr.) Keissler)

Maskouki & .

(2004) Mortazavi

*Aspergillus parasiticus* Speare

(*Thymus kotschyanus* Boiss. & Hohen)

(*Ocimum basilicum* L.)

(*Rosmarinus officinalis* L.)

(2003) Mari et al.

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4. Clevenger

- 
1. Crown rot
  2. Anthracnose
  3. Menthol

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( ) *B. cinerea*

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WA PCA PDA

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Δ

ϕ

PDA

) *B. cinerea*

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(Elad et al., 2007; Samson et

al., 2007)

( ± )

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PDA

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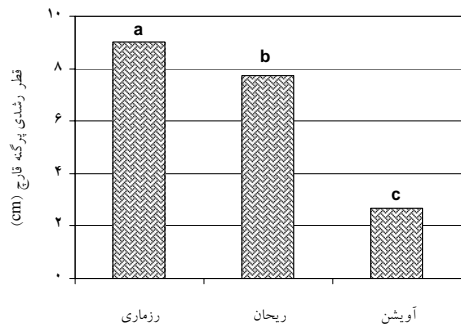
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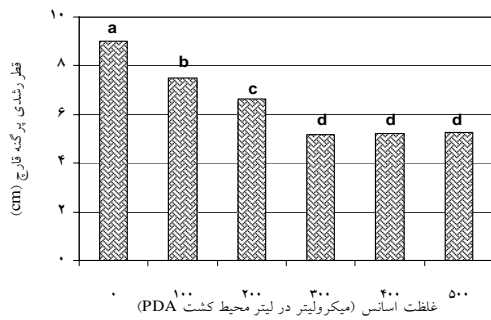
- 
- 1. Potato Dextrose Agar (PDA)
  - 2. Potato Carrot Agar (PCA)
  - 3. Water Agar (WA)
  - 4. Hyphal tip method
  - 5. Single spore method

(Maskouki & Mortazavi, 2004 )

MSTATC



*B. cinerea*



*B. cinerea*

(%)

*B. cinerea*

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_____	**
_____	**
_____	**
_____	
_____	(%)
_____	%

( )

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(Martinez-Romero et al., 2005)  
 ) (2005) Nickavar et al.  
 (  
 ) (2003) Hassani et al.  
 (  
 ) (2006) Soylu et al.  
 (  
 .

(2002) Sokovic et al.

Soylu et al. . (2002) Sokovic et al.  
 (2006)

*Phytophthora infestans*  
 (Mont.) de Bary  
 )  
 (  
 . ( )  
 (2006) Soylu et al.

(1987) Moleyar & Narasimham

- 
1. Carvacrol
  2. Linalool
  3. Borneol
  4. Camphor
  5. 1,8- Cineole

*B. cinerea*

(cm)	
a	( )
a	
a	
a	
a	
a	
a	( )
a	
/ a	
/ b	
/ b	
/ b	
a	( )
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.( ) %	

*B. cinerea*

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 (1996) Charai et al. .  
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 (2004) Plaza et al. .

(Skocibusic et al., 2006)

(%) )

(*Thymus patula*)

*B. cinerea*

(1996) Zambonelli et al.

( )

De Billerbeck et al. .

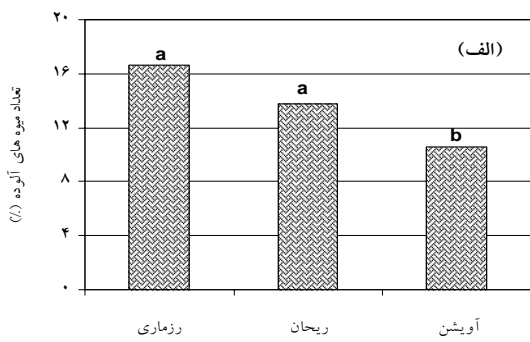
*Cymbopogon nardus*

(2001)

*Aspergillus flavus* Link

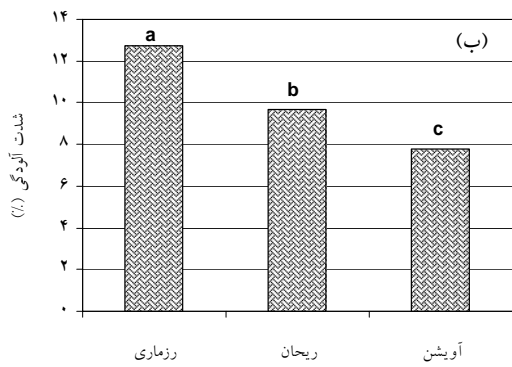
L.

( )



Rasooli .

(2006) et al.



(2006) Soylu et al.

( ) *B. cinerea*

( )

(Lambert et al., 2001)

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( )

*B. cinerea*

/	**	/	**
/	**	/	**
/	ns	/	ns
/	**	/	**
/	ns	/	ns
/	ns	/	ns
/	ns	/	ns
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/		/	

(%)  
% % . ns \*\* \*

( )

(1996) Zambonelli et al.

(2004) Plaza et al.

(Reddy et

(Martinez-Romero et al., al., 1998)

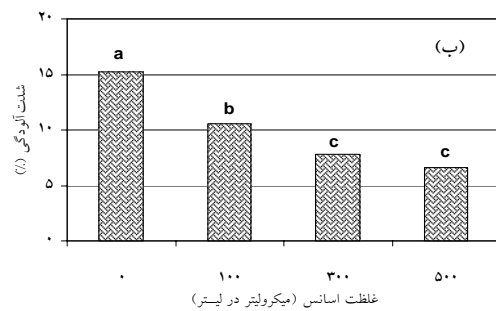
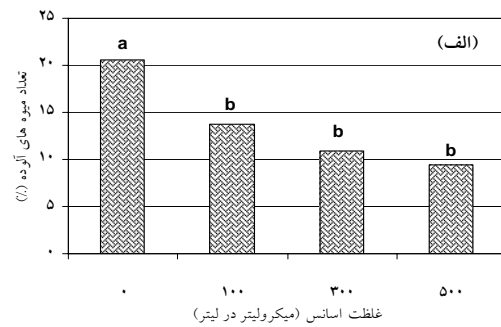
Maskouki & . 2005)

(2004) Mortazavi

( ) ( )

*Aspergillus parasiticus*

Speare



( )

( ) *B. cinerea*

( )



(1996) Charai et al. .

(2004) Plaza et al. (2000) Dorman & Deans

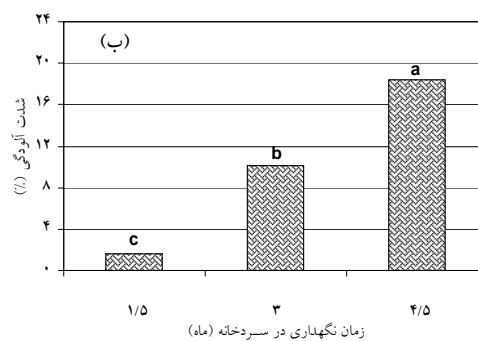
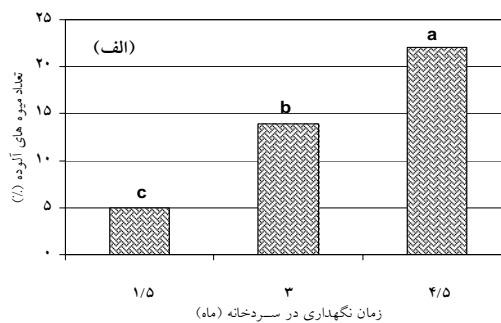
Maskouki & Mortazavi

( )

(2004)

Soylu et al.

(2006)



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( ) *B. cinerea*

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(Anthony et al., 2003)

(Tripathi et al., 2004)

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