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*(Brassica napus L.)*

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( ) Option 500

Licord

Option 500

Option 500

Licord

(1997) Bewley

(Bewley, 1997)

(Puntarulo et al., 1991)

(2003) Basra et al.

(Gidrol et al., 1994 Cacman et al., 1993)

( )  
%

(Simontacchi et al., 1993; Puntarulo & Boveris,  
.1990)

(H<sub>2</sub>O<sub>2</sub>)

(Basra et al., 2003)

(2002) Modarresi et al.

( C

(Puntarulo et al., 1991)

%

H<sub>2</sub>O<sub>2</sub>

O<sub>2</sub>

Goel et

(2003) al.

Verma .

(2003) et al.

Bernal et al. .

(2000)

( )

Hampton et al. .

(2000)

H<sub>2</sub>O<sub>2</sub>

H<sub>2</sub>O<sub>2</sub>

(2004) Hampton et al.

(Moradshahi et al., 2004)

( )

(GI)

(GS)

(Walke-Simmons & Sesing, 1990)

$$GI = \frac{7n_1 + 6n_2 + 5n_3 + 4n_4 + 3n_5 + 2n_6 + 1n_7}{7 \times \text{totalseed}}$$

$$GS = \frac{100[\sum ni]}{[\sum ni \times ti]}$$

ti

ni n

Option 500

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Option Licord  
(accelerated aging test)

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%

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(2000) Bernal et al.

VA-160A )

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(version 4.1) SAS (version 6)

MSTATC

Excell

(2003) Basra et al. .

( )

(MS)			
/ **	/ **	/ **	
/ **	/ **	/ **	
/ ns	/ *	/ *	×
/	/	/	(%)
: * %		: ** .ns	

Licord	Option	Licord	Option
/ a	/ a	a	b
/ ab	/ c	ab	c
/ c	/ d	c	d
/ e	/ f	e	f
/	/		

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Option 500

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Option 500

(2003) Basra et al. Option / Licord / Option 500 / 500 Licord

(2004) Krishtan et al. Option 500

Verma et al. Option 500 Licord (2003) / Option / / Licord /

(2000) Hampton et al. Option 500 Licord / / Option 500 / / Licord /

(2003) Veslova & Veslovesky 500 Licord Option

( ) (P ≤ / )

/ ( )

Licord Option 500 Licord Option 500 / Licord / Option 500

/ ( ) ( )

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( ) (P ≤ / )

500 / Licord ( )

/ Option

/ Option 500 / Licord / Option 500 /

Option 500 Licord

Licord

Option 500

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 ( ) (p ≤ / )

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**	**		×
**	ns		×
ns	ns	×	×

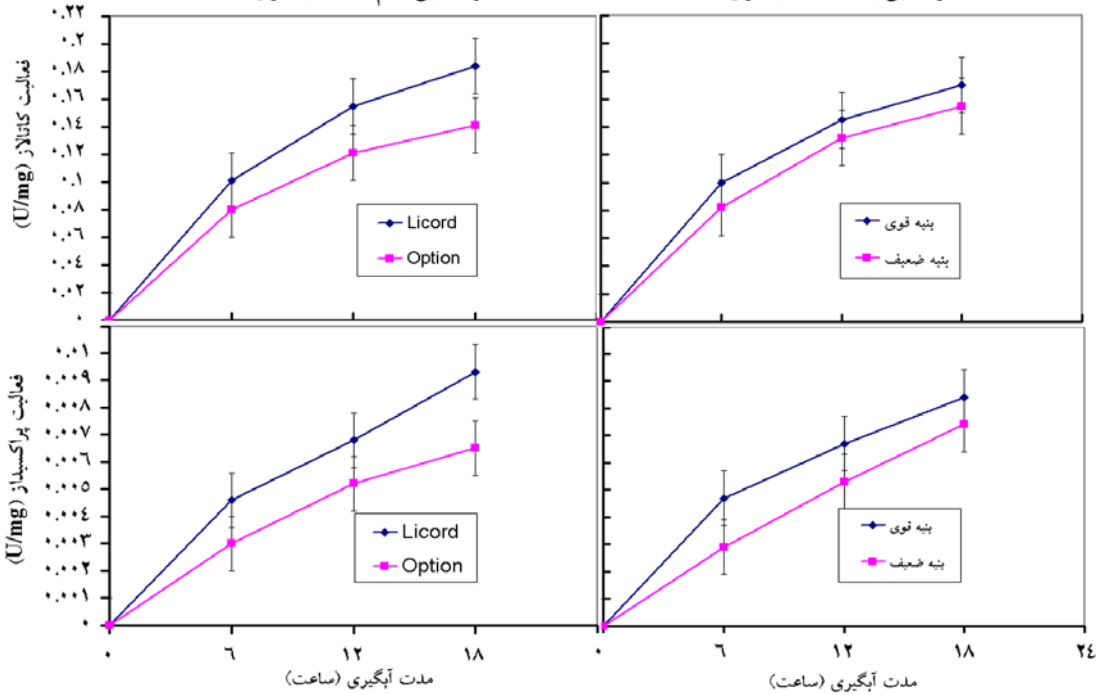
(%)

.ns

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اثر متقابل رقم-زمان آنگیری

اثر متقابل بنیه-زمان آنگیری



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/ Option 500 /

/ Option 500 / Licord

Option 500 Licord

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/ Option 500

Licord (2003) Verma et al.

Option 500

( $p \leq /$ )

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/ Licord

Option 500

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/ ) ( )

( ) ( $p \leq /$ ) (1989)

( )

Baily et al. (2004)

/ Licord

/ Option

Option 500 / Licord ( $p \leq /$ )

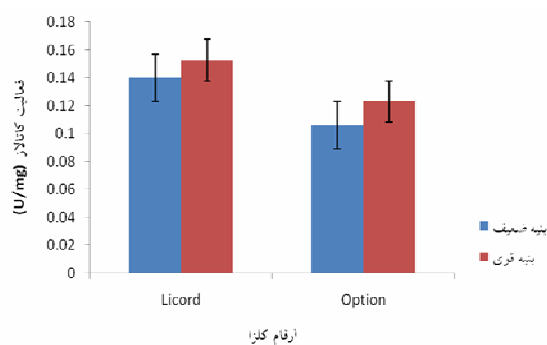
Option 500 / Licord ( )

( )

Licord



Option 500  
 Option 500 Licord  
 Licord  
 Option 500



(2000) Bernal et al.

(2003) Goel et al.

Baily et al.

(2004)

Licord

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