

( )

**(Lilium ledebourii)**  
**(L. × Gironde)**

\*

( // : // : )

**NAA BA**

/ /

°C °C

/ mg/l NAA

/ mg/l NAA

/ mg/l BA / mg/l NAA

/ mg/l NAA

( )

( )

( ) ( )  
L. japonicum °C

L. ledebourii ( )  
Gironde

( )

( )

Gironde

L. japonicum  
/ mg/l / mg/l NAA ( ) MS  
( ) (BA)  
( )

2ip NAA / mg/l

/ (V/V)

/ × MS ( )  
(pH= / ) ) NAA  
BA NAA BA BA (

±

MS  
( )

- 
- 1. Murashige and Skoog (1962)
  - 2. 6- benzylaminopurin
  - 3. 2-isopentenyl adenine

... :

( )

MSTATC

NAA

BA

NAA BA

( )

BA NAA

(MS)			(df)
( )			
/ **	/ **	/ **	BA
/ ns	/ **	/ **	BA ×
/ **	/ **	/ **	NAA
/ **	/ **	/ **	NAA ×
/ **	/ **	/ **	NAA×BA
/ **	/ **	/ **	NAA×BA×
/ **	/ **	ns	
/ ns	/ ns	/ ns	×
/ **	/ ns	ns	BA×
/ ns	/ ns	/ ns	×BA×
/ **	/ ns	/ ns	×NAA
/ *	/ ns	/ ns	×NAA×
/ ns	/ **	/ ns	×NAA×BA
/ **	/ ns	/ ns	×NAA×BA×
/	/	/	%CV

\*

\*\*

ns



...

:

(SD± )		NAA				NAA		
						(mg/l)	(mg/l)	
/ ± /	d	/ ± /	b	/ ± /	a†			C <sub>1</sub> N <sub>1</sub>
/ ± /	b	/ ± /	a	/ ± /	a	/		C <sub>1</sub> N <sub>2</sub>
/ ± /	a	/ ± /	c	/ ± /	b	/		C <sub>1</sub> N <sub>3</sub>
/ ± /	c	/ ± /	e	/ ± /	d			C <sub>2</sub> N <sub>1</sub>
/ ± /	b	/ ± /	d	/ ± /	c	/		C <sub>2</sub> N <sub>2</sub>
/ ± /	a	/ ± /	a	/ ± /	a	/		C <sub>2</sub> N <sub>3</sub>

(SD± )		NAA BA							
		BA	NAA						
		(mg/l)	(mg/l)						
B <sub>1</sub> N <sub>1</sub>				a†	/ ± /	c	/ ± /	e	/ ± /
B <sub>1</sub> N <sub>2</sub>			/	a	/ ± /	b	/ ± /	c	/ ± /
B <sub>1</sub> N <sub>3</sub>			/	ab	/ ± /	b	/ ± /	a	/ ± /
B <sub>2</sub> N <sub>1</sub>	/			d	/ ± /	e	/ ± /	f	/ ± /
B <sub>2</sub> N <sub>2</sub>	/	/		bc	/ ± /	d	/ ± /	d	/ ± /
B <sub>2</sub> N <sub>3</sub>	/	/		a	/ ± /	a	/ ± /	b	/ ± /
B <sub>3</sub> N <sub>1</sub>	/			d	/ ± /	e	/ ± /	g	±
B <sub>3</sub> N <sub>2</sub>	/	/		cd	/ ± /	bc	/ ± /	de	/ ± /
B <sub>3</sub> N <sub>3</sub>	/	/		ab	/ ± /	a	/ ± /	d	/ ± /

BA

(SD± )		NAA		(SD± )				
		NAA				BA		
		(mg/l)				(mg/l)		
/ ± /	e†		N <sub>1</sub> S <sub>1</sub>	/ ± /	a	/ ± /	a†	B <sub>1</sub> S <sub>1</sub>
/ ± /	e		N <sub>1</sub> S <sub>2</sub>	/ ± /	b	/ ± /	bc	B <sub>1</sub> S <sub>2</sub>
/ ± /	c	/	N <sub>2</sub> S <sub>1</sub>	/ ± /	b	/ ± /	bc	B <sub>2</sub> S <sub>1</sub>
/ ± /	d	/	N <sub>2</sub> S <sub>2</sub>	/ ± /	c	/ ± /	c	B <sub>2</sub> S <sub>2</sub>
± /	a	/	N <sub>3</sub> S <sub>1</sub>	/ ± /	d	/ ± /	b	B <sub>3</sub> S <sub>1</sub>
/ ± /	b	/	N <sub>3</sub> S <sub>2</sub>	/ ± /	d	/ ± /	bc	B <sub>3</sub> S <sub>2</sub>

(.)

2ip

(.)

( )

/ / /

BA

( )

°C

°C

*L.speciosum*

( )

NAA

/ mg/l NAA

( )

( )

( )

( )

NAA BA

NAA

( )

/ mg/l

( mg/l )

NAA

( )

( )

(.)

NAA

BA

/ / mg/l BA

( ) BA

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( ) ( ) ( )  
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NAA .( )

/ mg/l NAA

/ mg/l NAA

/ mg/l NAA

NAA

BA

.( )

/ mg/l NAA

/ mg/l BA

.( )

*L. martagon*

( )

BA

/ ( )

BA / NAA

MS

Casa Blanca

( )

.( )

BA

BA

BA

BA

.( )

( 2ip BA)

NAA

( )

( )

( )

( )

( )

( )

( )

NAA

( )

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( )

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