

Course Experiment of the Nutrition Diagnosis and Correction for
Horticultural Plant

12241007

0.5

15

300

3

1

1

1

1

2

4/5

2-3

20

2

5.0 kg	Ca NO ₃ · 4H ₂ O	100 L
8 kg	KNO ₃	
4 kg	K ₂ SO ₄	
6 kg	MgSO ₄	
600 g	NH ₄ NO ₃	
3 g	EDTA · FeNa · 3H ₂ O	
40 g	MnSO ₄	
24 g	H ₃ BO ₄	
8 g	CuSO ₄	
4 g	ZnSO ₄	
1 g	NH ₄ MoO ₄	
100 L		
	100	1
	1	1

2-3

7 00-8 00

16 00-17 00

23 00-24 00

4/5

2-3

20

3

5.0 kg	Ca NO ₃ · 4H ₂ O	100 L
8 kg	KNO ₃	
4 kg	K ₂ SO ₄	
6 kg	MgSO ₄	
1800 g	NH ₄ NO ₃	
3 g	EDTA · FeNa · 3H ₂ O	
40 g	MnSO ₄	
24 g	H ₃ BO ₄	
8 g	CuSO ₄	
4 g	ZnSO ₄	
1 g	NH ₄ MoO ₄	
100 L		
	100	1
	1	1

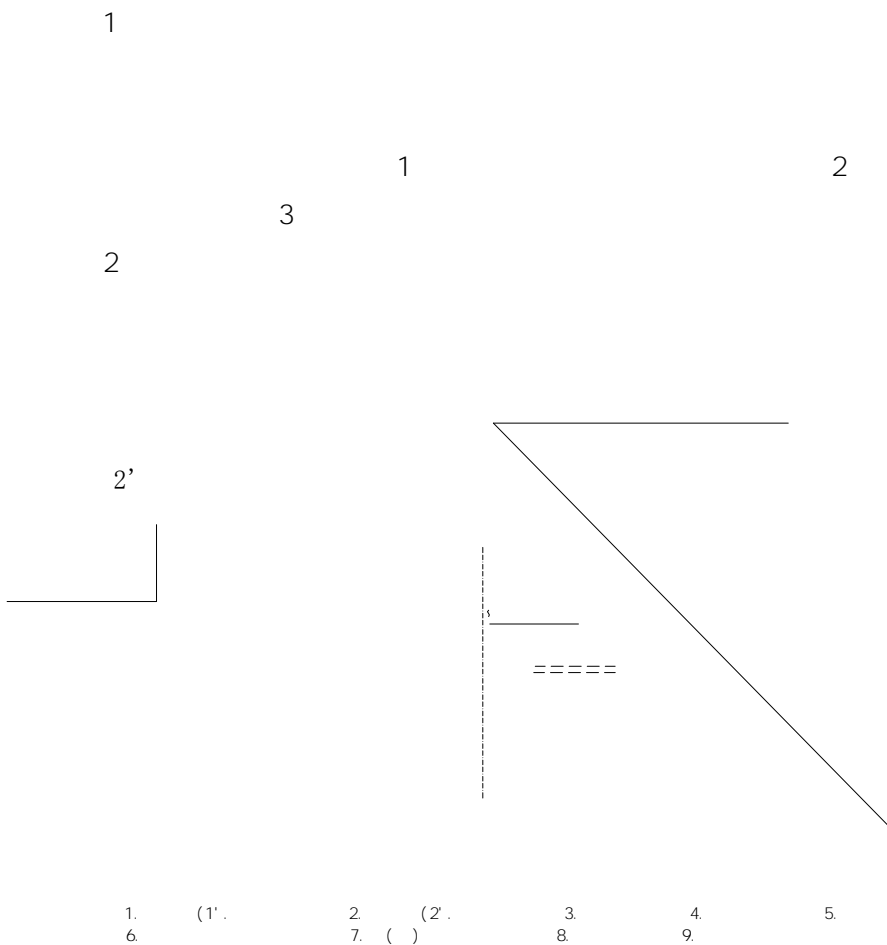
FeSO₄ EDTA-Fe

FeCl₂

0.2% FeCl₂ FeSO₄ EDTA-Fe
2 10

3

pH 5.5-6.0



2

2003

2003

21

2001

21

Experiment of Horticultural Crops Breeding Science

12351053

0.9

27

300

GPS

70%

70%

F

- [1] 2002
- [2] 2000
- [3] 2002
- [4] 2000
- [5] 2000
- [6] 1997

Specialty Practice in Fruit Science

12483009

4

120

300

1

6

2

1

2

3

4

Experiments on Fruit Science Subjects

12481042

3

90

300

20

90

1

1

2

2

1

2

2-3

5-7

3

3-7

4

2-3

1

2



4

3

1

2

3

4

1

2

3

4

1

2

3

1

2

%

%

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%

%

%

%

%

5

3

1

2

1
2

1
2
3

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6

3

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2

1
2
3

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7

3

1
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8

3

()

30 40

40

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6

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2

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9

3

1

2

1
2

) 1

(

10

3

1
2 —
3

11

12

10% 1% 0.01% 10% 20% 0.01% 0.03%
30 mmol /L 2-(N-) MES pH 6.0 6.5 PEG 0.03%

1.

3



25
 0.01% 0.03%CaCl₂ 10% 1% 0.01% 10% 20%PEG
 0.03%CaNO₃ 30 mmol /LMIS 6 h
 2 6 96 h FAA 37%
 50% 5 5 90
 1 FAA 2
 2 2M NaOH 65 1 h
 3 2 0.1% 65 4 h
 4 2
 5
 3 3 15-20 8
 3 10
 30
 1-2
 15
 1.
 2
 12 12

1
2

1

2-1

1

2

3

3 6%

2

2-2

3

2-3

4

1

2

95%

1

2

1

2

1

2

3

4

1

2

16

3

1

2

LC₅₀

(LT₅₀)

1

2

1

2

3

4

(LT₅₀)

1

17

3

1

2

3

NaOH

1

2

1

2

3

18

3

1

2

1

2

3

4

Val sa mal i

1

2

19

6

1

2

3
4
5

1

20

6

EC₅₀ EC₉₀

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2
3
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6
7

2002

2001 1

, 1992.

2010

2007

. 2003

2007

8				2008	
9			2000	8	
10				1992	3
11		2			1992 1
12		3			1996 2
13			1991	9	
14				2000	
15				21	
16	2000				
17				2000	
18					2003
				1997	

《综合性、设计性大实验》课程大纲

Comprehensive and Designing Experiments in Horticulture

12483006

1.0

30

300

1 30 3
 G1

G1	
1	3
2	3
3	3
4	DNA 3
5	DNA 3
6	3
7	3
8	Excel 3
9	Spss One-way ANOVA Uni vari ate 3
10	Spss Mil ti vari ate 3
	30

1 30 4

C2

C2	
11	9
12	6

PGR 13 6

14 9

S3 1 30 1 5

S3

" " 1 " " 6

2 6

3 6

4 6

5 6

1
2
3
4

pH

1
2
3
4
5

1
2
3
4

PDA NA 70 0.1

1
2 45
3
4 3-5 70
0.1 1-3 1-2

10ml 5-10 70 2-3

5 4-5

6 26-28 3-4

7 26-28 3-4

1

2

3

4

PDA NA 70

24

70

1
2
3

DNA

DNA
DNA

—

(CTAB)

Tri s

EDTA

2-

NaAc 3mol /L, pH5.2 70%

1.

CTAB

SDS

DNA

2.

2.1

CTAB

2.2 SDS

DNA

DNA

DNA

DNA

--

DNA

DNA

TE

UV-240

DNA

1mg/ml

TAE

1.0 %

1.

DNA

2.

2.1 DNA

2.2

DNA

EB

DNA

PCR

PCR

PCR

1. DNA

10x PCR Buffer 2mM dNTP mix Taq

1.

PCR

2.

0.5ml

PCR

93

3-5min

93

40s

58

30s

72

60s

30-35

72

7min

PCR

4

-20

PCR

PCR

PCR

PCR

PCR

DNAMAN

GenBank

DNA

PE

pMD18

1. PCR

2.

3.

PCR

PCR

GenBank

Excel

1 Excel

Excel

3

' 02-1'

228 g

11.1%

0.141% Vc

2.223

ug/100g

7 d

9

' 02-1'

_____ ' 02-1'

Spss

One-way

Spss
Multi vari ate

SPSS
SPSS

SPSS

1

1

2

2

1

2

Multi vari ate

SPSS

11

1.

2.

1.

2.

3.

4.

5.

1.
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12

1
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2

722 723

100 200ml

5ml 20ml

0.25mol • L-1

1mol • L-1

1 1

1
2

1.

9

2.

3d

3.

4.

1.
2.

13

3%

0.1%

- 1
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14

1.

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- 4.

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- 1 <http://bai ke. bai du. com/vi ew/3579153. htm>
- 2 <http://bai ke. bai du. com/vi ew/1327739. htm>
- 3 _____ .
2002 29(3) 297 300
- 4 _____ . SPSS for Windows _____ 2006
- 5 _____ 21 _____ 2002
- 6 _____ 21 _____
- 7 _____ 2002 _____ 2005.
- 8 _____ 2011 _____

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3

KT

1
2
3

KT

1

2

3

1

2

70%

30%

30%

30%

40%

- 1 <http://bai ke. bai du. com/vi ew/3579153. htm>
- 2 <http://bai ke. bai du. com/vi ew/1327739. htm>
- 3 _____ .
2002 29(3) 297 300
- 4 _____ . SPSS for Windows _____ 2006
- 5 _____ 21 _____ 2002
- 6 _____ 21 _____
- 7 _____ 2005.
- 8 _____ 2011
- 9 _____ 2009.