

ICS

DB

Quality requirements for synthetic gene

	.....	I
	.....	II
	.....	1
1	.....	1
2	.....	1
3	.....	1
3.1	.....	1
3.2	.....	2
4	.....	2
4.1	.....	2
4.2	DNA	3
4.3	DNA	3
4.4	DNA	3
5	.....	3
5.1	DNA	3
5.2	DNA	4
5.3	.....	4
5.4	.....	4
5.5	.....	4
5.6	.....	4
6	DNA	4
6.1	.....	5
6.2	.....	5
7	.....	5
A	.....	6
B	DNA	8
C	DNA	9

GB/T 1.1-2009

DNA

JJF 1265-2010

DNA

SN/T 2497.21-2010

DNA

DNA

DNA

DNA

DNA

DNA

EB Ethidium Bromide ——

OD Optical Density ——

DNA Deoxyribonucleic acid ——

1

DNA	DNA	4.2 4.3 4.4
		4.2 4.4

		4.2 4.4
		4.4
		4.4

DNA TE pH7 8.5 OD₂₆₀/OD₂₈₀ 1.8 2.0 OD₂₆₀/OD₂₃₀ 2.0 2

	OD ₂₆₀ /OD ₂₈₀ =1.8 2.0 OD ₂₆₀ /OD ₂₃₀ 2.0
	OD ₂₆₀ /OD ₂₈₀ <1.8 >2.0 OD ₂₆₀ /OD ₂₃₀ <2.0

DNA

DNA 5.2 DNA

— DNA

— DNA A

A DNA Marker DNA A

DNA 100%

DNA GB/T 19495.3 OD₂₆₀

0.05 1.0 DNA

OD₂₆₀/OD₂₈₀ OD₂₆₀/OD₂₃₀ DNA OD₂₆₀ OD₂₈₀ OD₂₃₀ DNA DNA

DNA 1 DNA 2 DNA

$$c = OD_{260} \times N \times F \dots\dots\dots (1)$$

c — DNA g/ml
N —
F — , 1 cm DNA $OD_{260}=1$ DNA 50 g/ml

$$m = c \times v \dots\dots\dots (2)$$

m — DNA g
c — DNA g/ml
v — ml

DNA B

DNA

DNA

DNA

DNA

DNA

-20

15-25%

-80

GB/T 19495.2
JB/T 6777

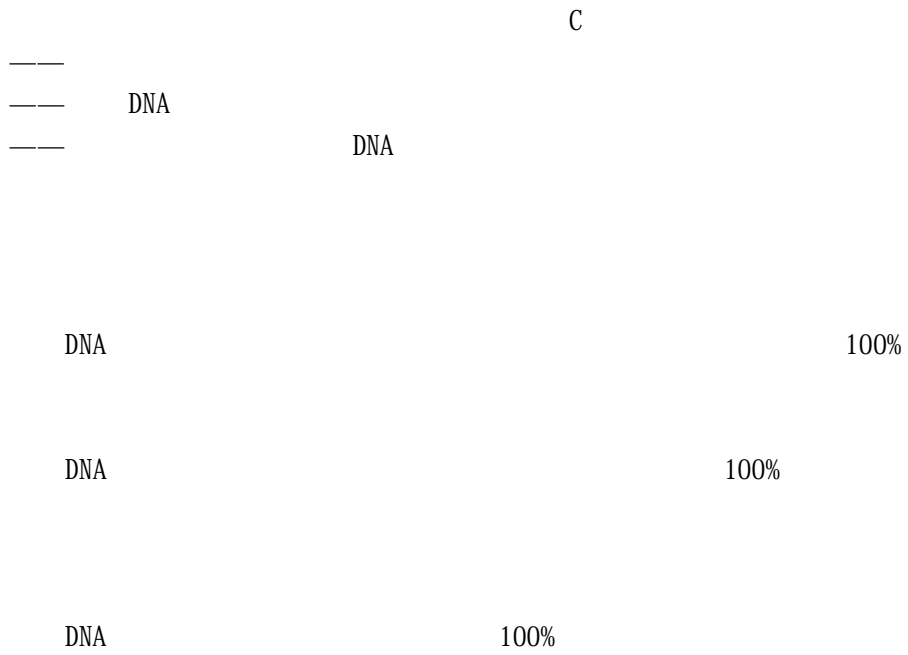
YY/T 0657
YY/T 0087

DNA

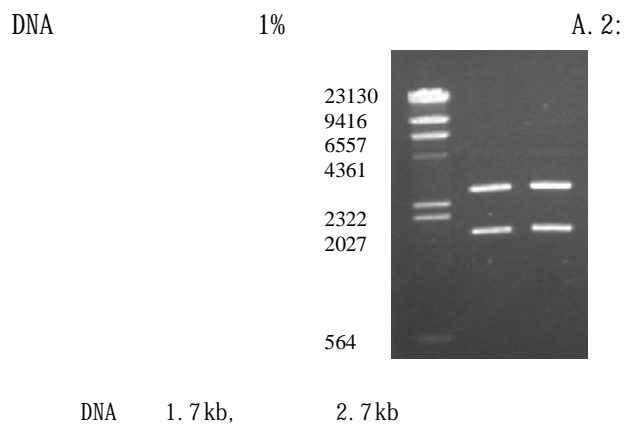
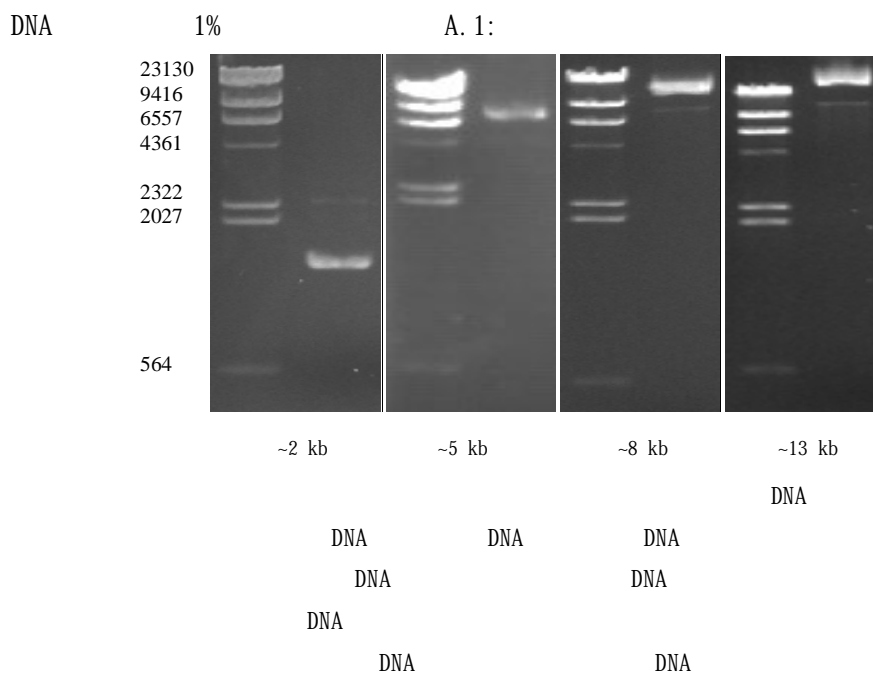
0.22 m

DNA

GB/T 6682



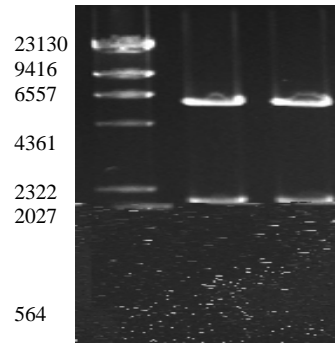
GB/T 19495.2



DNA

1%

A. 3:



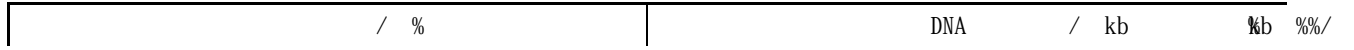
DNA

6.1 kb,

2.1 kb

DNA

B. 1



DNA

	_____ %	100%
DNA	_____	DNA
DNA	$OD_{260}/OD_{280} = \underline{\hspace{2cm}}$ $OD_{260}/OD_{230} = \underline{\hspace{2cm}}$ $= \underline{\hspace{2cm}}$	$OD_{260}/OD_{280} = 1.8 \quad 2.0 \quad OD_{260}/OD_{230} \quad 2.0$

DNA

DNA
