



BLUE CATS

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18
가 19
Schoebein
OZEIN(: 가) ' OZON '
Soret
3
8 가 6
가 가
2

가
가
가
(0.1ppm)
O₃,
48, -251 , -112 , 1.7

< 1 >	
/ PPM	
0.01~0.02	
0.1	가
0.2~0.5	3~6
0.5	
1~2	2
5~10	가, 가
15~20	2
50	1

< 2 >				
	()		UL 478	IEC 380
	0.06ppm (1	0.1ppm	0.1ppm	0.1ppm

1. BLUE CATS

가
< >
(6kv ~ 15kv)
가
O₂ + e- † O + O + e-
O₂ + e- † O₂ +
O + O₂ + M † O₃ + M
O₂ + O₂ † O₃ + O
10g ~ 35g/m³,
50g ~ 150g/m³,
25 가
10 ~ 13kwh/kg-O₃ 가
15 ~ 20 kwh/kg-O₃
2.

TEST	JM109	100Mℓ	LB broth*	1Mℓ
19			0.85% NaCl	
1 19		1.5Mℓ	가	
		cell		JM109

< 3 > Table 1. LB broth*	
	1
Tryptone	10g
Yeast extract	5g
Sodium chloride (NaCl)	5g
1N NaOH	1Mℓ
LB plate**	1 Agar 15g 가

Blue Cats Buri Fiber
12V H.V.T Flow FAN 220V
200mA 350mA Blue
Cats
(
17cm, 4cm) , 3
2)
Blue Cats
3가
Blue Cats
Blue Cats
Blue Cats
Blue Cats



TEST 1 Blue Cats 1 1

LB plate 3 spreading plate 18 0.3Ml

incubator plate 3

colony plate spreading

(2) Blue Cats ()

Blue Cats 250mA 30

1, 2, 3, 5

Blue Cats 1

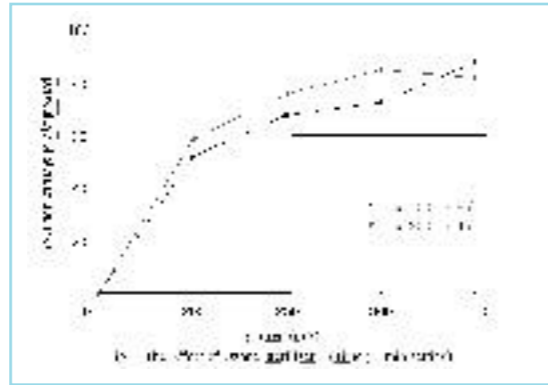
LB plate spreading 18 incubator plate 3 colony

3)

(1) Blue Cats ()

Fig.1 1 ()

200mA



350mA 200mA

1.7 가

(2) Blue Cats ()

< 4> Blue Cats E, Coli				
			6	12
S.aureus ()	Blue Cats	1,900	910 (52.1%)	730 (61.6%)
P.aeruginosa ()	Blue Cats	1,800	850 (52.8%)	650 (63.9%)
S.Faecalis ()	Blue Cats	2,000	950 (52.5%)	740 (63.0%)

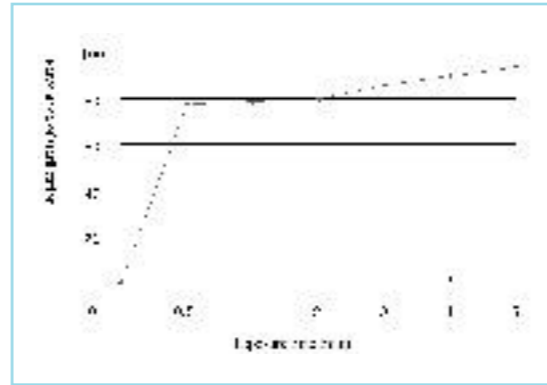
() (%) = [(A-B) / A] × 100
 A =
 B =

Fig.2 (250mA)

30 77.1%, 1

78.4%, 2 79.6%, 3 85.7%, 5

93.5%



(3) Blue Cats 가

Blue Cats 가

가

1 가 , 가

Cats 가 , Blue Cats

Blue Cats

250mA 300mA 2 3

가 가 가

가

Blue Cats

가 ,

가 ,

가 , Blue Cats

가 가

(1) 李正植(1993), 가

(2) (1994),

(3) R. G. Rice, M. E. Browning(1981), Ozone Treatment of Industrial Wastewater, N. J. Noyes Data Corp.