

EXP. NUMBER	EXPERIMENT/SUBJECT	DATE	57	
NAME	LAB PARTNER	LOCKER/DESK NO.	COURSE & SECTION NO.	

7-20-12

- Plated \rightarrow Nitrate Detectors
- No Antibiotic
- perfect growth (all 7)
- Ampicillin
- A, E, F, G grew
- chlor
- A, C, F, G grew
- Gel

loaded: - ladder
- I13401
- A
- B
- C

Started:

- K17405, K17601, I13401, K216005, K081014, K238001, K412001, J044506
- liquid cultures of \rightarrow unknowns
- added chlor

Result: Band in I13401, others = nothing

PCR of 4 flat grew:

- Buffer	2.5	$\times 4.5 =$	11.25
MgCl ₂	1.5		6.75
dNTPs	1		4.5
VF ₂	1		4.5
VR	1		4.5 2.25
Taq	.5		2.25
dH ₂ O	16.5		74.25
	24		

7-23-12

- Growth in
- K174015
- K176011
- I13401
- K216005
- streaked plates that grew
- plasmid preps of above growth
- 6 of 7 unknowns grew
- streaked 7 on chlor plate

(7-24-12) - 8 Nitrate Detectors

Buffer	2.5	$\times 9 =$	22.5
MgCl ₂	1.5		13.5
dNTPs	1		9
VF ₂	1		9
VR	1		9
Taq	.5		4.5
dH ₂ O	16.5		148.5
	24		

* Separate master mix

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7-24-12

* started liquid cultures of:

- J04450 (2-22-10) chlor
- J04450 (6-21-11) amp
- J04450 (2-22-10) tet
- J04450 (2-22-10) amp
- N.D. (R) "D"
- N.D. (R) "C"
- N.D. (R) "B"
- N.D. (R) "A"

(Nitrate detector)

* Digest

	Promoter	RFP	backbone
dH ₂ O	3.5 λ	3.5 λ	3.5 λ
Buffer 2	1	1	1
BSA	0.5	0.5	0.5
EcoRI	.5	-	.5
XbaI	-	.5	-
SpeI	.5	-	-
PstI	-	.5	.5
plasmid	4	4	4

→ then...
 Cut - 37° for 15 min. at least
 Inactivate - 80° for 70'

- Digest of
- K174015 (Cd)
- I13401 (6RFP red + O)
- K216009 (NO₃⁻)
- K176801
- K176011

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