



DYS SEE

Colony PCR Protocol.



Protocols

Colony PCR Protocol

- Colony PCR is a method used to screen for plasmids containing a desired insert directly from bacterial colonies.

1. Mark the colonies on the plate and label them with numbers

If you have a negative control plate, mark 1 to 3 colonies

2. Take out PCR tubes and label them as the colonies

3. Be sure that you have prepared replica plates and draw to the back of them distinct sections; one per colony. Label them as the above

4. Prepare the MasterMix

Number of reactions: number of colonies, 1 NTC without colony,

1 to 2 NTC with the colony/ies from the NTC plate, 1 extra/10 colonies

5. Transfer 25 ul MM to the PCR tubes

6. Pick a colony with a tip

7. "Poke" softly to the replica plate

8. Dissolve the rest in the PCR tube

9. Repeat for all the colonies

10. Quick spin down

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Reagents	Volumes (ul)
PCR water	19,9
10x kapa taq buffer A (Kapa Biosystems)	2,5
10 μ M dNTPs Mix	0,5
10 μ M Forward Primer VF2	1
10 μ M Reverse Primer VR	1
Kapa Taq Polymerase (5u/ μ l) (Kapa Biosystems)	0,1

- Set the following protocol on a thermocycler

Temperature	Time	Cycles
95°C	3'	1
95°C	30"	35
Primer's Tm - 5°C	30"	
72 °C	0,06sec/bp	
72 °C	0,06sec/bp	1
4°C	∞	∞

Run the PCR product on an agarose gel and check the result

Pick the right colony/ies from the plate and prepare liquid cultures for minipreps



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