

Colony PCR

Protocol:

1. Add 20 μL of sterilized distilled water into each PCR tube.
2. Pick the colonies with sterilized pipette tips and transfer them to the PCR tubes respectively.
3. Conduct PCR according to the following PCR profile for preparing **DNA template** by lysing the bacterial cells:

98°C	5 minutes
12°C	∞

4. Mix the following reagents as a **master mix**:

	Volume (μL) (For 1 set)	Volume (μL) (For 12 sets)
Takara Ex Taq (5 units/ μL)	0.1	1.2
10X Taq Buffer	2	24
dNTP (2.5 mM)	1.6	19.2
VF2 primer (10 mM)	2	24
VR primer (10 mM)	2	24
Sterilized distilled water	11.3	135.6
Total	19	228

5. Add 1 μL of DNA template into 19 μL of master mix in each PCR tube.
6. Conduct PCR according to the following PCR profile:

98°C	3 minutes	32 cycles
98°C	30 seconds	
53°C	30 seconds	
72°C	1 minute	
72°C	10 minutes	
4°C	∞	