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two layer plating method

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1 Works for me

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BEFORE STARTING

1 Prepare 6 cm diameter petri plates containing solidified LB-agar and dry it in the intercellular incubator for 12 h. LB medium formulation

NaCl	10g
TRYPTONE	10g
YEAST EXTRACT	5g
Agar	15g

Take equipping 1L as an example, other volume isometric adjustment

Antibiotic concentration:

Abbreviation	Name	Initial concentration mg/ml	Final concentration mg/ml
Tc	tetracycline	5	50
Gm	gentamicin	50	50

CaCl2 was added to give a final concentration of 2 mmol/L.

Prepare 0.6% soft agar and store it in a refrigerator at 4°C.

LB medium formulation

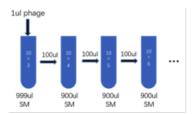
NaCl	10g
TRYPTONE	10g
YEAST EXTRACT	5g

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Agar	6g				
Take equipping 1L as an example, other volume isometric adjustment. CaCl2 was added to give a final concentration of 2 mmol/L.					
Preparation of SM Buffer					
NaCl		5.8g			
MgSO4·7H2O		2g			
Tris-HCl		50ml\(1 M \)			
H2O		To 1 L			
After preparation, sub-Pack (50ml) and store in 4 degree refrigerator.					
Shake the bacteria in advance, 5 ml each, culture overnight.					
The final concentration of inducer was 0.1% by adding 1 ml bacterial liquid and appropriate amount of inducer into ml centrifuge tube.					
37°C, 220 rpm shaker culture induction for 1 h					
Set the temperature of water bath to 50°C					
Take half of the beaker water, put the soft agar to be melted into the beaker, and heat it in the microwave oven.					
Put the completely melted culture medium into the water bath to keep warm.					
No inducer group: take warm soft agar (10ml/tube) and pour it into the tube containing 100 μl bacterial liquid, shak well and pour it into the plate containing solidified LB-agar.					
Inducer group: add 100 μ l 10% Ara and 10 μ l 1mol/L IPTG to the tube containing 100 μ l bacterial liquid, suck and m well, pour in warm soft agar, shake and pour it into the plate containing solidified LB-agar.					
Place the poured Petri dish for 30 min to solidify.					

During the waiting process for coagulation, the phages stored at 4°C were removed from the refrigerator and diluted with SM Buffer in a 1.5 ml centrifuge tube.

The amount of addition can be referred to the following figure.



- 13 Add bacteriophage as needed and shake well.
- Take 10 μ l phage spot to the center of each grid of the culture dish, let it dry for 30min, and culture it upside down for 16-20h.