# 1. LB medium preparation

#### ·Material

LB Broth Agar Powder, Miller

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Ultrapure (UP) Water

Double Distillation Water (ddH<sub>2</sub>O)

Ampicillin

# ·Step

### Making LB liquid medium

- (1) Weigh 12.5g of LB Broth Powder.
- 2 Add the powder into 500ml UP Water.
- 3 Autoclave entire bottle of LB medium under 121 Celsius degree for 20 minutes.

# Making LB solid medium

- 1 Weigh 12g of LB Broth Agar Powder.
- 2 Add the powder into 300ml UP Water.
- 3 Autoclave entire bottle of LB medium under 121 Celsius degree for 20 minutes.
- 4 Pour the medium into culture dishes in the ultraclean worktable.

## Making LB selective medium

- 1 Weigh 12g of LB Broth Agar Powder.
- 2 Add the powder into 300ml UP Water.
- 3 Autoclave entire bottle of LB medium under 121 Celsius degree for 20 minutes.
- 4 Weigh 0.98g of Ampicillin.
- (5) Add the ampicillin into 9.8ml ddH<sub>2</sub>O. The ddH<sub>2</sub>O is sterilized previously. Shake the mixture fully.
- 6 Filter the mixture through a filter to remove microorganism.
- 7 Add 1μl of mixture into an EP tube with 999μl ddH<sub>2</sub>O. The ddH<sub>2</sub>O is sterilized previously.
- (8) When the LB medium cool down to nearly 50°C, add 300µl antibiotic mixture into it in the ultraclean worktable, then pour it into culture dishes.