(Culture of E. coli)

Preparation of medium:

LB medium:

Bacto Tryptone 4g

Yeast etract 2g

NaCl 4g

MilliQ 400ml

Make the solution in conical flask.

Agitate the solution with stirrer.

Wrap the neck of the conical flask with aluminum foil.

Autoclave it and cool it to RT.

Store it at RT.

Make the solution in conical flask.

Preparation of plate:

LB plate:

Bacto Tryptone 4g

Yeast etract 2g

NaCl 4g

MilliQ 400ml

Agar 6g

Ampicillin stock solution:

Ampicillin sodium 5g

MilliQ 50ml

Filtration using 0.20μm filter

Divided it into 1ml each, store at －20℃.

Wrap the neck of the conical flask with aluminum foil.

Autoclave it and cool it to under 100℃.

Incubate it at 50～60℃.※In the case of LB plate(Amp＋), add 0.8ml of ampicilin sodium to stir it. Ampicilin is unstable inactive at RT, so store it at 4℃.

Pour dishes each 2ml of it.

Place the dishes for 1 or 2 days.

〇Culture by liquid medium

Small scale: for check DNA or protein

Extracting bacteria: tooth pick

Inoculation:3ml LB medium

Incubation:at 37℃, shaking, overnight

Middle scale: for purification of DNA or protein, starter of large scale

Inoculation:10～25ml LB medium

Large scale:

Inoculation:500ml LB medium

〇Plate culture

Drying:place it at 50～55℃ for 20～30 min.

Place it at 5～15min in clean bench opening the cover.

Streaking: platinum loop

Spreading: bacteria spreader, turn table

Making master plate:

Number the colony.

Culture the master plate overnight.

Seal the dish with parafilm at 4℃.

〇Storage

Store the dish upside down at 4℃ sealing the cover with parafilm.

We can store it for several weeks.