

Names of each student: Yuqi Song, Xiang Li(Alice), Chuqiang Peng

Date: 9.27.23

Protocols Performed: Overnight culture E.coli JM109 in liquid LB medium.

Purpose: To revive dormant E. coli and make more E.coli for the next step.

Supplies used/Materials: E.coli JM109, liquid LB medium with AMP

Results:

Conclusions/Next Lab goals: Make solid LB medium and overnight E.coli on it.

Extra notes:

Names of each student: Yuqi Song, Xiang Li(Alice), Chuqiang Peng

Date: 9.28.23

Protocols Performed: Overnight culture E.coli on LB plate

Purpose: Prepare for next step

Supplies used/Materials: Solid LB plate , E.coli

Results:

Conclusions/Next Lab goals: Culture E.coli in liquid LB

Extra notes:

Names of each student: Xiang Li(Alice)

Date: 9.29.23

Protocols Performed: Culture E.coli in liquid LB

Purpose: prepare for next step

Supplies used/Materials: Liquid LB medium, E.coli

Results:

Conclusions/Next Lab goals: Culture E.coli in liquid LB with ethanol

Extra notes:

Names of each student: Chuqiang Peng

Date: 9.30.23

Protocols Performed: 100 μ L culture was inoculated into a 10-ml screw-cap tube filled with 9.9 ml LB liquid medium and added 10 μ L ethanol. Overnight culture.

Purpose: Increase the ethanol tolerance of E.coli

Supplies used/Materials: 95%ethanol, E.coli, LB

Results:

Conclusions/Next Lab goals: Dilute the solution

Extra notes:

Names of each student: Yuqi Song

Date: 10.1.23

Protocols Performed: 100 μ L culture was inoculated into a 10-ml screw-cap tube filled with 9.9 ml LB liquid medium and added 10 μ L ethanol. Overnight culture.

Purpose: Increase the ethanol tolerance of E.coli

Supplies used/Materials: 95%ethanol, E.coli, LB

Results:

Conclusions/Next Lab goals: overnight culture E.coli in LB plate.

Extra notes: