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Streaking bacteria on a Petri Plate from -70C frozen culture

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Standard Microbiological Protocol, used regularly.

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Abstract

This protocol describes how to obtain isolated single colonies of any bacterial strain by streak plating, from a -70C frozen stock culture.

Materials

- Inoculation loops
- Frozen *E.coli* BW25113 stock
- Pipette and tips



Creating a streak plate

- 1 Label bottom of LB agar plate with name, date, *E. coli* strain, and any additional contents such as antibiotics.

Note

Streak plates from stocks should be replaced weekly and are kept in the blue tray in the small fridge nearest our bench.

- 2 Working aseptically, use inoculation loop to take *E. coli* from the frozen stock by swirling loop on surface of stock until slushy.

Note

Note: Alternatively, a pipette tip can be used to take from *E. coli* stock and to produce streaks. This will further help to avoid contamination.

- 3 Streak loop across one side of the agar plate. Discard loop (if using disposable plastic loop).
- 4 Rotate the plate 90°, and starting at the end of the last set of streaks, use a fresh disposable loop (or sterilize the reusable loop) to create streaks on this side of the plate. Working clockwise, repeat with next two sides of the plate, using a fresh loop each time.
- 5 Incubate plate  Overnight at  37 °C , upside down to prevent condensation.