

Phage Enrichment

To grow a new stock of a phage.

Liquid Enrichment

In Advance:

1. Do an ONC of the host bacteria.

Procedure:

1. Add 1 mL of ONC to 50 mL of LB to an Erlenmeyer flask (scale-up as needed).
2. Incubate at 37 °C on a shaker (200 min⁻¹) for 1 – 2 h.
3. Add 100 µL of Phage Stock (scale-up as needed).
4. Incubate at 30 °C on a shaker (200 min⁻¹), ON.
5. If too turbid, centrifuge at 6000 g for 15 min. Keep the supernatant.
6. Filter the solution through a 0.22 µm membrane filter.
7. Store at 4 °C.

Plate Enrichment

In Advance:

1. Prepare plates with at least 100 plaques each.

Procedure:

1. Add 3 mL of media on top of the plate and swirl it.
2. Incubate for 1 h at RT.
3. Use a cell spreader to scrape the top layer of soft agar from the plate.
4. Collect the liquid and top layer in a Falcon.
5. Vortex for 10 – 30 min.
6. Centrifuge, 6000 g, 10 – 15 min (if maximum speed is 4000 g, centrifuge for 15 – 20 min).
7. Filter the supernatant through a 0.22 µm membrane filter.
8. Store at 4 °C.