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one-step growth curve

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Protocol status: Working
We use this protocol and it's working

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- 1 Subculture host bacterium in medium of choice plus 2 mM CaCl₂ and grow to mid-log phase (ca. 0.5 OD_{650nm}).

- 2 Pipette 9.9 mL of the log phage culture into the empty flask and place at the appropriate incubation temperature for 5 min.
- 3 Add 0.1 mL of phage preparation to the 9.9 mL culture. (FLASK A)
- 4 Transfer 1.0 mL from FLASK A to 9.0 mL of prewarmed medium, mix well. (FLASK B)
- 5 Transfer 1.0 mL from FLASK B to 9.0 mL of prewarmed medium, mix well. (FLASK C)
- 6 Place FLASK (A, B or C) at 37°C, 180 rpm
- 7 Every 10 minutes remove 0.1 mL from the appropriate FLASK (A, B or C) add to the molten OVERLAY; add 0.1 mL of PLATING HOST; mix and pour on surface of UNDERLAY plates. Each experiment should perform in triplicate.
- 8 When the overlays have hardened (ca. 15 min) invert the plates and place them in an incubator.
- 9 After an appropriate incubation period (ON for *E. coli* or *Pseudomonas aeruginosa*) count the plaques on each of the plates.