Oct 18, 2020

one-step growth curve

DOI
dx.doi.org/10.17504/protocols.io.bnjamcie

Jiaxin Li[1]

[1]South China University of Technology

Jiaxin Li

OPEN ACCESS

DOI: dx.doi.org/10.17504/protocols.io.bnjamcie

Protocol Citation: Jiaxin Li 2020. one-step growth curve. **protocols.io https://dx.doi.org/10.17504/protocols.io.bnjamcie**

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

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

Created: October 18, 2020

Last Modified: October 18, 2020

Protocol Integer ID: 43330

1 Subculture host bacterium in medium of choice plus 2 mM CaCl2 and grow to mid-log phase (ca. 0.5 OD650nm).

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.