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P1 transduction

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1 Works for me

This protocol is published without a DOI.

Eadewunm

PROTOCOL CITATION

Elizabeth Fozo 2020. P1 transduction. **protocols.io**
<https://protocols.io/view/p1-transduction-bpznmp5e>

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Prepare P1 phage

- 1 Inoculate a single colony into 5 ml LB medium (+ appropriate antibiotic if needed)
- 2 Shake at **37 °C** overnight
- 3 Dilute to be 0.01 in 10 ml LB medium + **50 µl** of 1 M CaCl₂ + 0.2% glucose final
- 4 Grow at **37 °C** for 60 minutes (don't want the cells to get much above 0.1 OD₆₀₀)

5 Add  10 µl ,  50 µl , or  100 µl P1_{KC} phage lysate

6 Grow at  37 °C until lysed (ideally ~3 hr)

7 Add  200 µl drops chloroform, vortex for 30 seconds

8 Spin at ? for 10 minutes

9 Transfer the supernatant into a new 15 ml tube

10 Add 100 µl chloroform

11 Store in fridge

P1 transduction

12 Inoculate a single colony into 5 ml LB medium (+ appropriate antibiotic, if needed)





13 Shake at  37 °C overnight

14 Spin down cells

15 Resuspend in 5 ml MC buffer (10 mM MgCl₂, 5 mM CaCl₂)

16 Set the transduction mix in a 1.5 ml Eppendorf tube

Tube#1	Cells	P1 lysate
1	0.1 ml	–
2	0.1 ml	10 µl
3	0.1 ml	50 µl
4	0.1 ml	100 µl
5	–	100 µl

- 17 Incubate at RT for 20 min without shaking
- 18 Add  20 µl 1 M NaCitrate
- 19 Shake at  37 °C for 1 hr
- 20 Plate  100 µl on LB plate + appropriate antibiotic
- 21 Incubate plate at  37 °C overnight
- 22 Examine colonies = transductants