

MINIPREP

ITO Kei, 1993 October

1. incubate bacteria in 2 ml LB.
 37°C, O/N.
2. mix the media and bacteria well.
3. take 1.5 ml into microtubes / keep 0.5 ml at 4°C.
4. cfg. 4°C, 12000g, 30 sec.
5. decant out the medium *completely*.
 remove the remaining medium with a pipette.
6. add 100 ul **Solution I**.
 vortex
7. add 200 ul **Solution II** (freshly prepared).
 invert the tubes 10 times to mix the solution gently, *don't vortex!*
 store on ice, 3-5 min. (*not longer*)
8. add 150 ul **ice-cold Solution III**.
 invert the tubes 10 times, keep the tube in an inverted position for 10 sec
 to disperse Solution III through the lysate.
 store on ice, 3-5 min.
9. cfg. 4°C, 12000g, 5 min.
10. prepare microtubes with **500ul phenol:CIAA (25:24:1)**
11. transfer the cfg. supernatant to phenol:CIAA.
 vortex
12. cfg. 4°C, 12000g, 2 min.
 prepare microtubes with **900ul EtOH**
13. transfer the cfg. upper phase to EtOH.
 vortex
 store at R.T. 2 min.
14. cfg. 4°C, 12000g, 5 min.
15. decant out the supernatant *completely*.
 remove the remaining solution with a pipette.
16. add 180 ul **70%, EtOH**.
17. cfg. 4°C, 12000g, 5 min.
18. remove the supernatant *completely* with a pipette.
19. dry the pelet for 10 min.
20. dissolve the pelet in **30 ul TE**
21. store the DNA at 4°C

Solution I

| | | | |
|-------|------------------|--------|---------------------------------|
| 50 mM | glucose | 0.9 g | glucose (=dextrose) |
| 25 mM | Tris Cl (pH 8.0) | 2.5 ml | 1 M Tris Cl |
| 10 mM | EDTA | 2.0 ml | 500 mM EDTA H_2O to 100 ml |

autoclave, store in 4°C

Solution II

| | | | |
|-------|------|------|-----------|
| 0.2 N | NaOH | 5 ml | 0.4N NaOH |
| 1 % | SDS | 5 ml | 2% SDS |

*mix just before use. (200 * tube number * 1.1) ul*

Solution III

| | | | |
|-------------|---------|--------------|--------------|
| 5 M KOAc | 60 ml | 29.44 g KOAc | 14.72 g KOAc |
| acetic acid | 11.5 ml | 11.5 ml | 5.75 ml |
| H_2O | 28.5 ml | to 100 ml | to 50 ml |

do not autoclave! (Filteration is not needed, either.)