

Good quality Drosophila genomic DNA extraction

Solutions:

Solution A: Tris HCl 0.1 M (pH 9.0)
EDTA 0.1 M
SDS 1%

Phenol-Chloroform: 1:1
shake
spin for 10 min at 4.000 rpm

KAc 8 M
Isopropanol
EtOH 70%
TE

Procedure:

1. 25 flies per tube □ keep on ice
2. add 250 µl of solution A
3. homogenize the flies □ put back on ice
4. incubate for 30 min at 70 °C
5. add 35µl of KAc □ shake (no vortexing)
6. incubate for 30 min on ice
7. spin for 15 min at 13.000 rpm
8. move supernatant to a new tube (leave back any precipitate or interphase)
9. add 1 vol of Phenol-Chloroform to (8.) (ca. 250µl) □ shake thoroughly (no vortexing)
10. spin for 5 min at 13.000 rpm
11. repeat steps 8 to 10
12. move supernatant to a new tube
13. add 150µl of Isopropanol □ shake
14. spin for 5 min at 10.000 rpm
15. suck off supernatant (don't lose pellet!)
16. wash the pellet with 1 ml 70 % EtOH
17. spin for 5 min at 13.000 rpm
18. dry the pellet 10 min under vacuum
19. resuspend the pellet in 100µl of TE