

<Extraction genomic DNA from cultured cells>

1. Preparation

- i) Cell culture in 6 cm dish
- ii) Tail buffer (100mM NaCl, 50mM Tris-HCl (pH8.0), 100mM EDTA, 1%SDS)
- iii) Proteinase K (20 mg/ml)
- iv) 5M NaCl
- v) Isopropanol & 70% Ethanol

2. Procedure (standard)

Cell culture in 6 cm dish

- ↓ Aspirate medium
- ↓ Add 0.5 ml of Tail buffer
- ↓ to 1.5 ml microtube
- ↓ Add 12.5 μ l of Proteinase K (20 mg/ml)
- ↓ Overnight, 60°C
- ↓ Add 167 μ l of 5M NaCl & vortex
- ↓ 15000 rpm, 5 min, 4°C

Sup (to new tube ~550 μ l)

- ↓ Add 550 μ l of Isopropanol
- ↓ RT 10 min with rotating
- ↓ 15000 rpm, 10 min, 4°C

ppt (DNA)

- ↓ Add 1 ml of 70% Ethanol & vortex
- ↓ 15000 rpm, 5 min, 4°C

ppt (DNA)

- ↓ Air dry
- ↓ Dissolve in 100~150 μ l of TE buffer (with shaking ~ O/N)

PCR using 1 μ l as template