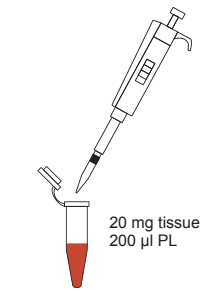


Before Starting

1. Add 10 ml of absolute ethanol to the PW1 (only at the first use).
2. Add 48 ml of absolute ethanol to the PW2 (only at the first use).
3. Add Proteinase K (PK) solution to the lyophilized powder of proteinase K and store at -20 °C until usage.
4. Check PW1, PL and PTB for salt precipitation. Redissolve any precipitation at 50 °C.
5. Preheat the solution of PE to 56 °C before starting the extraction process to enhance DNA extraction yield.

Protocol

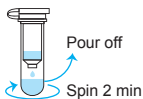
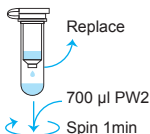
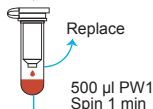
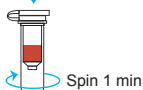
- 1 Transfer 20 mg of tissue (10 mg for liver or spleen) to a 1.5 ml tube and add 200 μ l of PL solution. Cutting the tissue into the small pieces increases the yield of genomic DNA and reduce lysis incubation time.
- 2 Add 20 μ l of Proteinase K and mix them well by vortexing and incubate at 56 °C until complete lysis (vortex occasionally). Lysis time varies depending on the tissue type.
- 3 After lysis of tissue, add 200 μ l of PTB solution and vortex for 15 seconds and incubate at 56 °C for 10minutes.
- 4 Add 200 μ l of absolute ethanol and mix by puls-vortexing (15 s).
- 5 Carefully transfer lysate to the spin column. A quick spin before lysate transfer would be preferred if there was any debris in the mixture. Spin column for 1 min at 13,000 rpm.
- 6 Replace the collection tube with a new one.
- 7 Add 500 μ l of PW1 into the column and spin for 1 min at 13,000 rpm.
- 8 Replace the collection tube with a new one.
- 9 Add 700 μ l of PW2 into the column and spin for 1 min at 13,000 rpm.
- 10 Pour off the flow-through of collection tube.
- 11 Repeat step 8 and 9 with 500 μ l of PW2 (optional)
- 12 Spin for 2 min at 13,000 rpm to remove the remaining of the wash buffer. Transfer the spin column to a new 1.5 ml microtube.
- 13 Add 200 μ l of preheated PE, wait 3 min at room temperature. Or 57 °C (If you didn't warm PE). If you want more concentration add less PE (100 μ l).
- 14 Spin for 1 min at 13,000 rpm to elute DNA from the column. Store DNA solution at -20 °C.



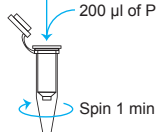
Add 20 μ l PK Vortex
incubate at 56 °C

200 μ l PTB
Vortex for 15 s
56 °C for 10 min.

200 μ l ethanol
Vortex for 15 s



Transfer column
200 μ l of PE



Tissue DNA Extraction Kit

Before Starting

1. Add 10 ml of absolute ethanol to the PW1 (only at the first use).
2. Add 48 ml of absolute ethanol to the PW2 (only at the first use).
3. Add Proteinase K (PK) solution to the lyophilized powder of proteinase K and store at -20 °C until usage.
4. Check PW1, PL and PTB for salt precipitation. Redissolve any precipitation at 50 °C.
5. Preheat the solution of PE to 56°C before starting the extraction process to enhance DNA extraction yield.

kit content			
No.	Description:	Packing	Qty.
1	PL (Lysis Buffer)	12 ml	1
2	PTB (Tissue Binding Buffer)	12 ml	1
3	PW1 (Wash Buffer)	15 ml	1
4	PW2 (Wash Buffer)	12 ML	1
5	PE (Elution Buffer)	12 ml	1
6	PK (PK Storage Buffer)	1 ml	1
7	Proteinase k	20 mg	1
8	Spin Column	50	1
9	Collection Tube	50	2