



Protocol for DNA purification from mouse tail

This protocol is for use of a QuickPick™ kit together with a QuicPick™ magnetic tool.

1. Prepare Tail Lysis Buffer;
50 mM Tris-HCl (pH 8.0)
100 mM EDTA
100 mM NaCl
1% SDS
2. Place tail biopsy (~ 2.5 mm / ~ 5 mm) in Tail Lysis Buffer and add Proteinase K
Incubate the sample overnight at +55 °C with gentle shaking (~350 rpm).
3. In the following day add RNase A (20 mg/ml) and continue the incubating for 1.5 hours. During the incubation pipette the rest of the reagents into tubes according to the Table 1.
4. Centrifuge the lysed sample at 300 x g for 1 minute. Transfer the supernatant into a clean tube.
5. Continue the gDNA purification protocol as described in the QuickPick™ SML gDNA kit insert , starting with addition of Binding Buffer and Magnetic Particles.
6. Elute the DNA for 10 minutes or until magnetic particles are **uniformly dispersed**.
7. The volume of Elution buffer can be decreased or increased depending on the desired DNA concentration for the downstream application.

Table 1. Reagent volumes for genomic DNA purification

Reagent	Reagent volume per prep	
	~ 2.5 mm	~ 5 mm
Sample amount		
Tail Lysis Buffer	175 µl	250 µl
RNase A (20 mg/ml)	5 µl	10 µl
Proteinase K	5 µl	10 µl
Binding Buffer	125 µl	250 µl
Magnetic Particles	4 µl	8 µl
Wash Buffer 1	2 x 250 µl	2 x 500 µl
Wash Buffer 2	250 µl	500 µl
Elution Buffer	10 - 50 µl	20 – 100 µl