

Protocol for genomic DNA purification from hair with PickPen®

1. Use ~2 cm of hair strand with intact root. Place it into the bottom of the tube.
2. Add Proteinase K into the tube according to the table 1 and mix properly.
3. Add Lysis Buffer into the same tube according to the table 1. Mix the tube properly by inverting the tube and pipetting up and down several times.
4. Pulse-vortex the tube for 15 seconds. Spin the tube briefly to make sure that the roots are in the solution. Incubate the tube for 10 minutes at +56°C.
5. During the lysis step pipette rest of the reagents into tubes according to the Table 1.
6. Follow the protocol starting from combining the lysed sample, Binding Buffer and Magnetic Particles as described in QuickPick™ SML gDNA kit insert.
7. Elute the DNA for 2 - 10 minutes or until magnetic particles are uniformly dispersed.
8. 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 purifications

Reagent	Reagent volume per preparation			
	1-2 pcs	2-4 pcs	4-8 pcs	8-16 pcs
Lysis Buffer	25 µl	50 µl	100 µl	200 µl
Proteinase K	2.5 µl	5 µl	10 µl	20 µl
Binding Buffer	62.5 µl	125 µl	250 µl	500 µl
Magnetic Particles	2 µl	4 µl	8 µl	16 µl
Wash Buffer 1	2 x 125 µl	2 x 250 µl	2 x 500 µl	2 x 750 µl
Wash Buffer 2	125 µl	250 µl	500 µl	750 µl
Elution Buffer	5 - 25 µl	5 - 50 µl	10 - 100 µl	25 - 200 µl

For research use only