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Protocol for DNA purification from pig semen

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

1. Pipet pig semen into a tube followed by Proteinase K according to the table 1. Mix the tube properly.

2. Add Lysis Buffer and 7.5 % DTT solution according to the table 1. Mix the tube properly by inverting the tube several times.

3. Pulse-vortex the tube ten times and incubate for 15 minutes at +56°C. During the incubation pulse-vortex the tube ten times every five minutes.

4. During the lysis step pipette the rest of the reagents into tubes according to the Table 1.

5. Follow the protocol starting from combining the lysed sample, Binding Buffer and Magnetic Particles as described in QuickPick™ SML gDNA kit insert.

6. Elute the DNA for 2 - 10 minutes or until magnetic particles are uniformly dispersed. Elution step can be done at +50°C for 5 minutes with occasionally mixing to improve DNA yield.

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 purifications

Reagent	**Reagent volume per preparation**	
Sample amount	**5 µl**	**10 µl**
Lysis Buffer	100 µl	200 µl
Proteinase K	10 µl	20 µl
7.5 % DTT	2 µl	4 µl
Binding Buffer	250 µl	500 µl
Magnetic Particles	8 µl	16 µl
Wash Buffer 1	2 x 500 µl	2 x 750 µl
Wash Buffer 2	500 µl	750 µl
Elution Buffer	10 - 100 µl	25 – 200 µl