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Protocol for DNA purification from serum

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

1. Pipette appropriate amount of serum sample into a 2 ml tube
2. Add Proteinase K Solution and Lysis Buffer into tube according to the table 1.
3. Mix the tube properly by inverting the tube and pipetting up and down several times.
1. Pulse-vortex the tube for 15 seconds and incubate for 10 - 15 minutes at +56°C.
2. During the lysis step pipette the rest of the reagents into tubes according to the Table 1.
3. Follow the protocol starting from combining the lysed sample, Binding Buffer and Magnetic Particles as described in QuickPick™ SML gDNA kit insert.
4. Elute the DNA for 2 - 10 minutes or until magnetic particles are uniformly dispersed.
5. 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	**100 - 200 µl**	**200 – 400 µl**
Lysis Buffer	100 µl	200 µl
Proteinase K	10 µl	20 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 - 50 µl	20 - 100 µl