



## **Protocol for DNA purification from chicken blood**

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

Note this protocol is the same as the protocol for human whole blood, given in the kit insert. Chicken red blood cells are nucleated and yields of DNA are typically more than 10-fold higher than for human blood.

1. Thaw the blood, if using frozen blood as a sample material.
2. Pipette chicken blood into a tube, add Lysis Buffer and Proteinase K according to the table 1. Mix the tube properly by inverting the tube and pipetting up and down several times.
3. Pulse-vortex the tube for 15 seconds and incubate for 10 minutes at +56°C.
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.
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			
	25 µl	50 µl	100 µl	200 µl
Sample amount	25 µl	50 µl	100 µl	200 µl
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	25 µl	50 µl	100 µl	200 µl