## ChargeSwitch® gDNA 1 ml Blood Kit

Catalog no. CS11001

25-0815 Version A; 17 Dec 2004

Follow the steps below to purify up to 20 µg of genomic DNA from 1 ml of human blood. For more detailed protocols and additional information, refer to the kit manual.

1. Before Starting		3. Binding the DNA		
<b>1</b> .	For a new kit, mix 10X RBC Lysis Buffer (L8) with 225 ml of water		1.	Vortex the ChargeSwitch® Magnetic Beads to resuspend.
<ul><li>2.</li><li>3.</li></ul>	Set water bath at 60°C. Shake the WBC Lysis Buffer (L12) to mix.		2.	Add 100 µl of ChargeSwitch® Magnetic Beads to the sample, and gently pipet up and down twice.
2. P	reparing the Sample		3.	Add 100 µl of Purification Buffer (N5), and gently pipet up and down 5 times.
<b>1</b> .	In a ~15 ml microcentrifuge tube, add 10 ml of 1x RBC Lysis Buffer (prepared as above) to 1 ml of blood		4.	Incubate at room temperature for 1 minute, then place the tube in the MagnaRack <sup>®</sup> for 1 minute.
<b>2</b> .	Cap the tube and invert 5 times to mix, then incubate at room	u	5.	Remove and discard the supernatant, then remove the tube from the rack.
<b>3</b> .	Centrifuge at $2,000 \times g$ for	4.	W	ashing the Beads
	the supernatant.		1.	Add 1 ml of Wash Buffer (W12), and place the tube in the MagnaRack <sup>™</sup> for
<b>4</b> .	Add 1 ml of Wash Buffer (W11), taking care not to dislodge the pellet, then carefully pour away the supernatant.		2.	1 minute. Remove and discard the supernatant, then remove the tube from the rack.
<b>5</b> .	Add 0.5 ml of WBC Lysis Buffer (L12), and gently pipet up and down		3.	Repeat steps 1–2 one more time.
	10 times.	5.	E	luting the DNA
6.	and add 1 ml of WBC Lysis Buffer (L12) and 20 µl of Proteinase K.		1.	Add 300 µl of Elution Buffer (E5),
<b>—</b> 7.	Gently pipet up and down twice.			and gently pipet up and down 10 times.
8.	Incubate at 60°C for 10–30 minutes, mixing occasionally by pipetting or vortexing		2.	Incubate at room temperature for 5 minutes.
9.	Remove from water bath, and gently		3.	Place the tube in the MagnaRack <sup>™</sup> for 5 minutes.
	pipet up and down 10 times.		4.	Remove the eluate containing the purified DNA.

**invitrogen**