Fully Automated Magtration® System 12GC for Genomic DNA Purification from Whole Blood

Performance of DNA purification from whole blood

Table 1. Materials and Reagents

Sample	Human whole blood treated with EDTA-2Na
Reagent	GC series Magtration®-MagaZorb® DNA Common N (Code No. E2005)
IC-card for Protocol	Magtration®-MagaZorb® DNA Common N (Code No. I-1255)
Sample Volume	200µl
Elution Volume	200µl or 100µl
Operation time	Approx.40min

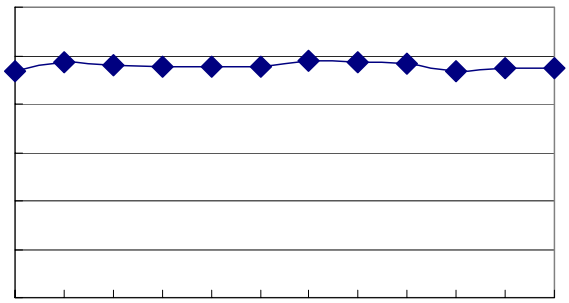


Figure 1. Yields of purified genomic DNA from whole blood at each nozzle position with Magtration® System 12GC.

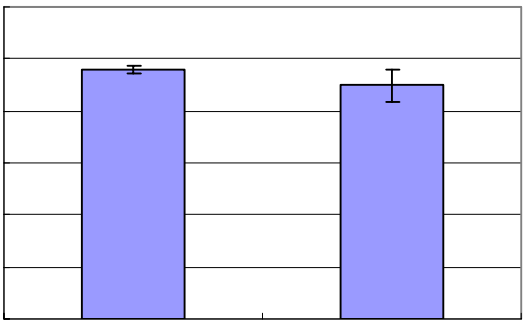


Figure 2. Typical yield from different elution volumes.

Performance of GC series Magration - MagaZorb DNA Common N Reagents.

Table 2. Materials and Reagents

Sample	Human whole blood treated with EDTA-2Na, ACD or Heparin
Reagent	GC series Magtration®-MagaZorb® DNA Common N (Code No. E2005)
IC-card	Magtration®-MagaZorb® DNA Common N (Code No. I-1255)
Sample	200µl
Elution	200µl

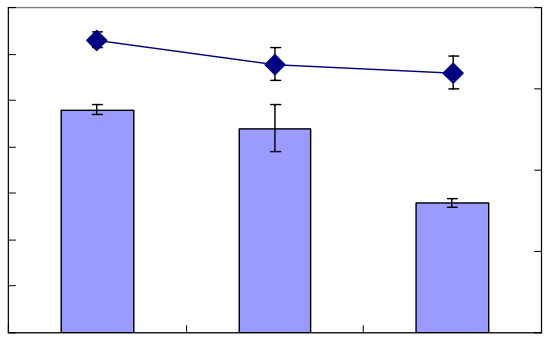
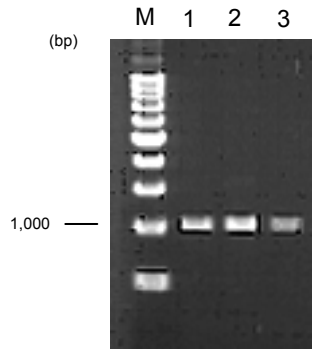


Figure 3. Yields and purities of purified genomic DNA from whole blood with different types of anticoagulant.

PCR amplification using DNA purified from whole blood



Lane M : OneStep Ladder 500
Nippon Gene code:313-05361)
Lane 1 : DNA from EDTA treated whole blood
Lane 2 : DNA from ACD treated whole blood
Lane 3 : DNA from Heparin treated whole blood

1.5% Agarose, 3µl Loading

PCR Cycle

Preheat	94°C, 5min	
Repeat	94°C, 20sec	30 cycles
	57°C, 30sec	
	72°C, 1min	
Extension	72°C, 10min	

Template	50ng
Primer Target	Benzodiaze pine (BZD) receptor (located on GABA receptor) 1038bp
Enzyme	TaKaRa Ex Taq (0.25units)

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