

Fully Automated Magtration® System 8Lx for Genomic DNA Purification from Whole Blood



● Performance of Genomic DNA Purification from whole blood

Table 1. Materials and Reagents

Sample	Human whole Blood treated with EDTA-2Na
Reagent	Genomic DNA for 7ml(Code No. E8000)
Sample Volume	7ml
Elution Volume	Approx. 1.5ml
Operation Time	Approx. 60 min

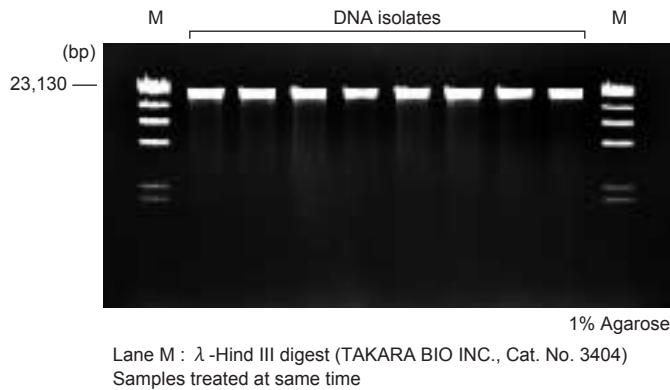
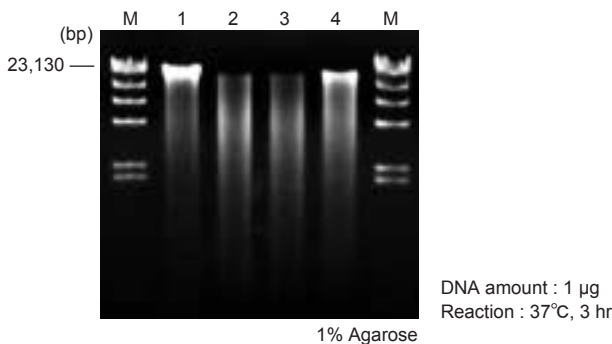


Figure 1. Agarose gel electrophoresis of purified genomic DNA from whole blood by Magtration® System 8Lx.

Table 2. Yield and Purity (n=8)

Sample	Yield(μg)	A ₂₆₀ /A ₂₈₀
Human whole Blood treated with EDTA-2Na	229.2±6.0	1.89±0.02



Lane M : λ-Hind III digest Maker (TAKARA BIO INC., Cat. No. 3404)
Lane 1 : non-digestion
Lane 2 : EcoR I digestion
Lane 3 : Hind III digestion
Lane 4 : BamH I digestion

Figure 2. Restriction enzyme digestion.

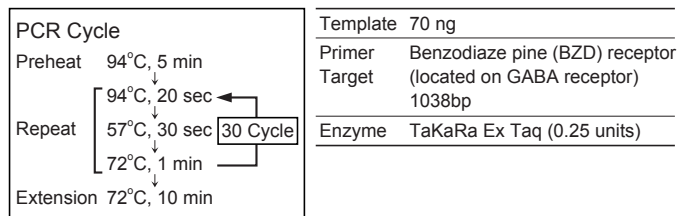
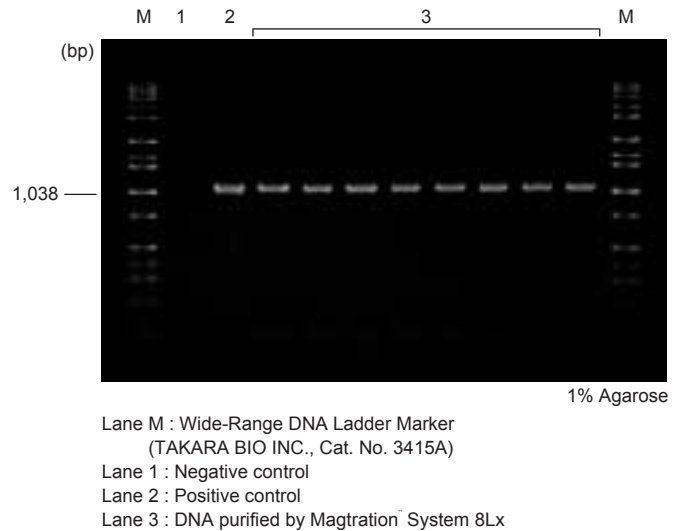


Figure 3. PCR amplification using DNA purified from whole blood.

Advantage

The Magtration® System 8Lx would be one of the most reliable Genomic DNA purification system for large volume samples in the current market.

- The yield is approx. 230 μg of Genomic DNA from whole blood 7ml with approx. 60 minutes.
- Purity between 1.8 and 1.9 at A₂₆₀/A₂₈₀ ratio.
- Could use in downstream studies directly, such as PCR, restriction enzyme digestion.
- True walk-away automation system.



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