Distribution

MagNA Kit

Blood DNA Isolation 96 Preps



AMO-ARA MAG-NA Kit (Blood DNA isolation) is designed for the rapid isolation of high quality genomic DNA from whole blood. Preparation time for a single sample is less than 30 minutes (Figure 1), decreasing the chances of DNA degradation. The kit contains sufficient materials for 96 preparations. The purified, high-quality DNA is ready-to-use for a wide variety of demanding downstream applications.

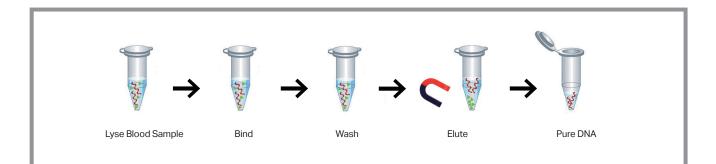


Figure 1. The AMO-ARA MAG-NA kit (Blood DNA isolation) procedure

Lysis is performed by the lysis buffer containing large amounts of chaotropic ions in the presence of Proteinase K. Suitable conditions for binding of DNA to the magnetic beads are achieved by addition of the binding buffer to the lysate. The binding step is reversible and specific to nucleic acids. Washing steps efficiently remove contaminations. High quality genomic DNA is finally obtained with the elution buffer

Specifications

- · Isolation of genomic DNA without the use of harmful chemicals.
- Purification of highly pure genomic DNA with an A260/A280 ratio between 1.8 and 2.0 and A260/A230 ratio greater than 2.0.
- More than 4 ug per sample using 200 ul of whole blood.
- Ready-to-use for subsequent reactions like PCR, Southern blotting, any kind of enzymatic reactions, or library preparation for NGS.

Ordering information		
Product Description	Catalog Number	Unit
AMO-ARA MAG-NA Kit (Blood DNA Isolation)	BKD4DBL96	96 preps



Comparison of genomic DNA extracted from whole blood using the AMO-ARA MAG-NA Kit and competitor's kits.

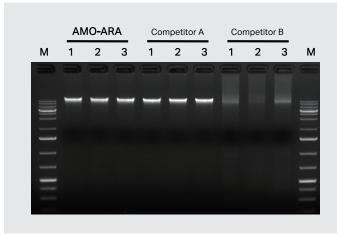


Figure 2. Comparison of quality of gDNA extracted from human whole blood using the AMO-ARA MAG-NA Kit and competitor's kits.

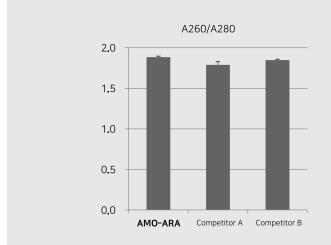
Genomic DNA was isolated from $200\,\mu\text{L}$ of whole blood using AMO-ARA MAG-NA Kit and competitor's kits. The extracted DNA was evaluated by loading 100 ng of DNA on 1% TAE agarose gel.

M: DNA Ladder

Lane 1 \sim 3 : AMO-ARA MAG-NA Kit

Lane 4 \sim 6 : Competitor A Genomic DNA Extraction Kit

Lane 7 ~ 9 : Competitor B Genomic DNA Extraction Kit



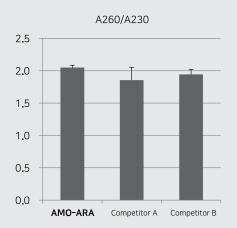


Figure 3. Comparison of purity of gDNA extracted from human whole blood using the AMO-ARA MAG-NA Kit and competitor's kits. The AMO-ARA MAG-NA Kit showed a better purity than the competitor's kits.

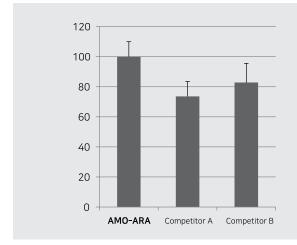


Figure 4. Comparison of quantity of gDNA extracted from human whole blood using the AMO-ARA MAG-NA Kit and competitor's kits.

The results showed that the AMO-ARA MAG-NA Kit yielded more gDNA compared to the competitor's kits. The yield was expressed as a percentage relative to DNA obtained from the AMO-ARA MAG-NA Kit (set to a value of 100).