



# Simple, quick DNA isolation method from blood samples

MAGNETIC NANOPARTICLE BASED

BLOOD DNA ISOLATION PROTOCOL

**1**

**Lysis**

**2**

**Binding**

**3**

**Washing**

**4**

**Elution**

**XpressDNA Blood Mini Kit**

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## Product Description



XpressDNA Blood Mini kit allows rapid and robust purification of nucleic acids from blood samples. Our patented Magnetic nanoparticle technology ensures high quality isolation of DNA from blood with a starting blood volume of 0.2 – 0.4 ml. 400 µl of blood sample can give a DNA yield of 3–20 ng. Our kit helps in overcoming the time-consuming and limiting conventional methods with our optimized protocol for a quick and reproducible extraction with better yields. DNA extracted using XpressDNA Blood kit is amenable for all downstream applications such as PCR, Real time PCR, Restriction digestion, Sanger sequencing, NGS and Southern blotting.

## Highlights

- No phenol extraction required along with minimal centrifugation steps
- Gives good results even with blood clot/ aged blood/ blood spots
- The kit is compatible with any type of vacutainer (Citrate/EDTA/fluoride/heparin tubes)
- No need for mechanical lysis
- The purified genomic DNA displays improved performance in downstream applications

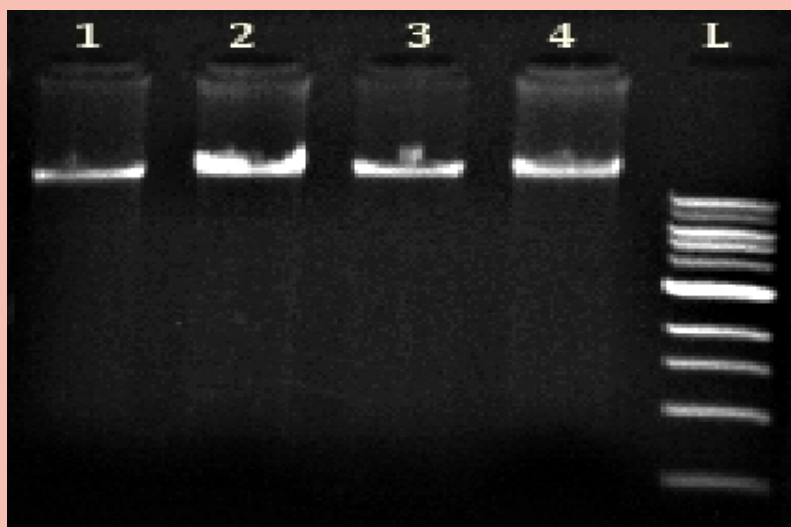


Figure a. Human blood

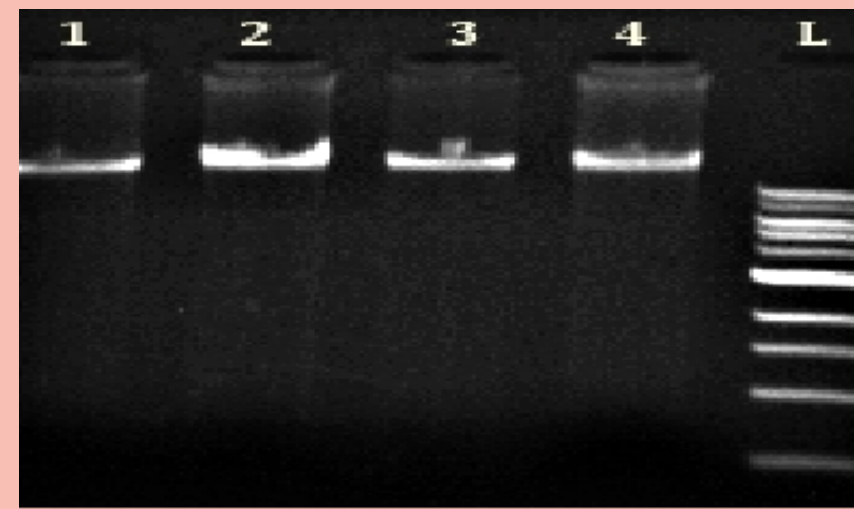
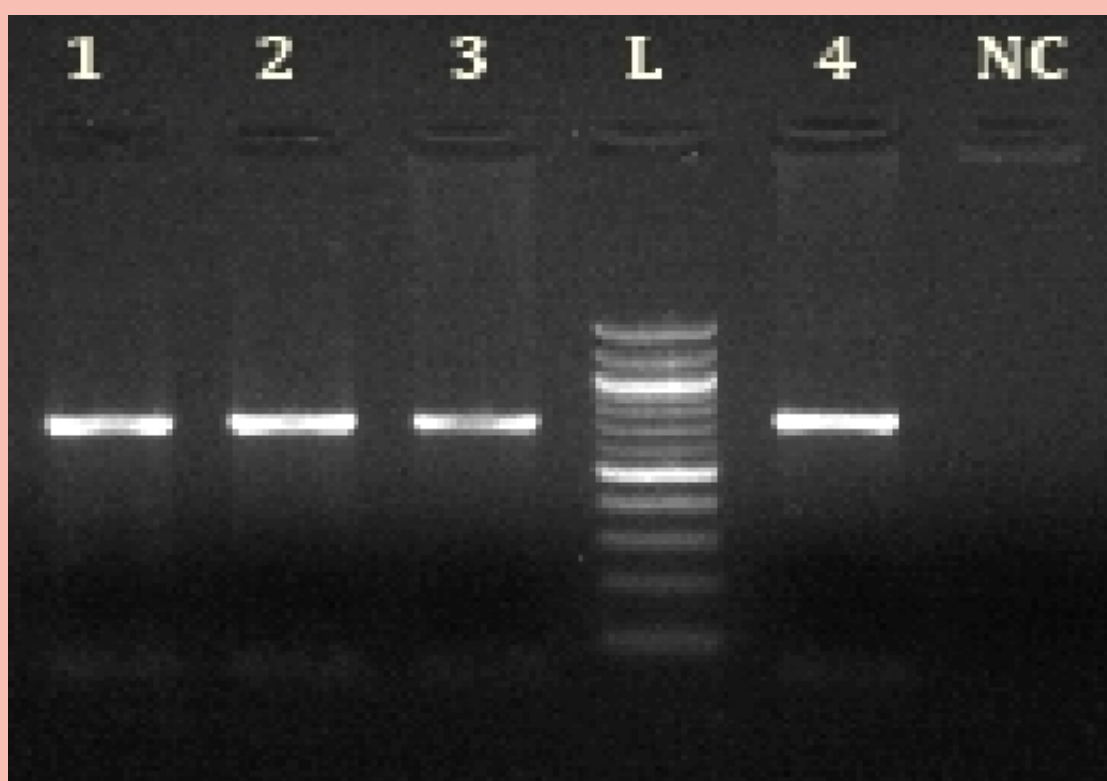


Figure b. DNA from blood stored in anticoagulants

**Figure a:** Genomic DNA extracted from 400 µl of human blood. L: 1kb ladder, Lanes 1-4: genomic DNA from four blood samples. **Figure b:** Genomic DNA extracted from 400 µl of blood stored in anticoagulants. Lanes 1: DNA from citrate coated vial. Lane 2: DNA from heparin coated vial. Lane 3: DNA from EDTA coated vial. Lane 4: DNA from fluoride coated vial. Lane L: 1kb ladder



Downstream compatibility check using PCR from genomic DNA extracted from different blood samples. Lanes 1 & 2: PCR amplification from genomic DNA extracted from blood clots. Lane 3: Genomic DNA from blood stored in fluoride vial. L: 100 bp ladder. Lane 4: Genomic DNA from blood stored in EDTA vial. Lane NC: Negative control

## XpressDNA Blood Kit provides consistent purity and is compatible with anticoagulants

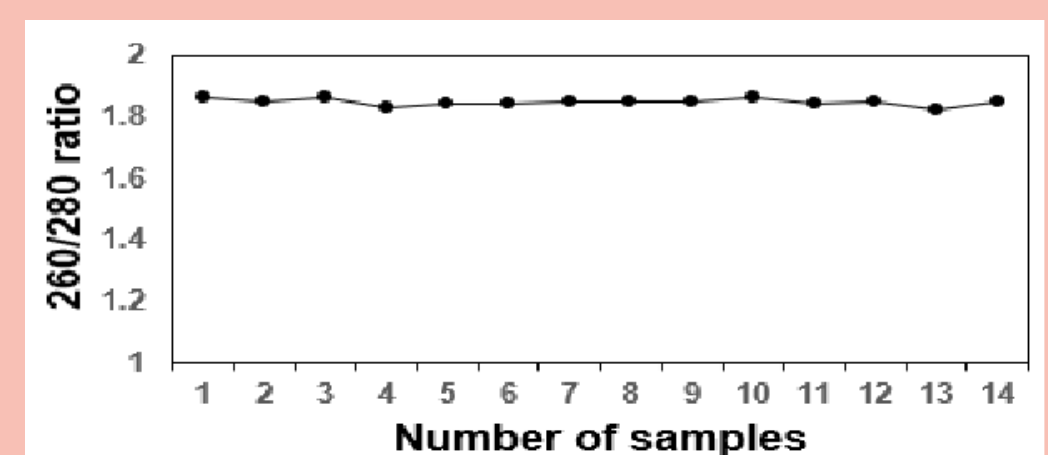


Figure 1: Consistent Performance

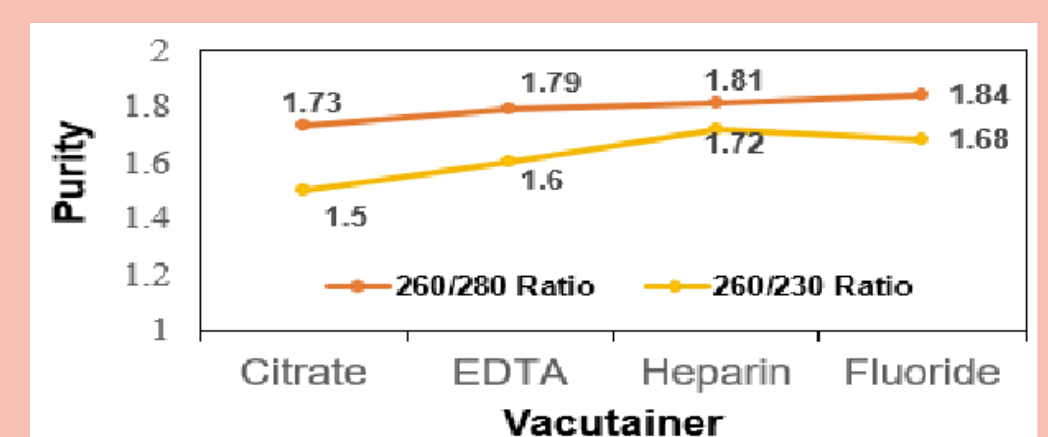


Figure 2: Compatibility with anticoagulants