GeneAll® Exgene™ Blood SV Kit

DNA Isolation from blood samples

Introduction

Extracting high-quality DNA from blood samples is complex due to the low percentage of DNA containing leukocytes, high protein content, and additional complications from freezing, and clotted blood. The Exgene™ Blood DNA Extraction Kit effectively addresses the challenges of blood DNA extraction. It uses the GeneAll noble spin-column along with innovative buffer systems to deliver high-yield and high-purity genomic DNA. This kit is suitable for various sample types, including:

- Fresh and frozen whole blood with any common anticoagulants
- Dried blood spots
- Body fluids
- Cultured cells
- Buccal swabs

Enhanced lysis buffer

- Increase DNA yield by 50%
- Efficient RBC lysis to prevent membrane clogging, improving DNA purity

Optimized washing buffer

- Lower Guanidine-HCl concentration removes contaminants, improves 260/230 ratios, and prevents precipitation, ensuring efficient extraction
- An additional wash step enhances both DNA yield and purity

Improved elution buffer

- Smaller elution volume (50~100 µl) maintains DNA yield while increasing concentration
- EDTA-free buffer eliminates PCR enzyme inhibition, ensuring reliable realtime-PCR

Ordering information

Cat. No.	Product	Size	Preps
105-101	Exgene™ Blood SV	mini	100
105-152		mini	250
105-201		midi	100
105-226		midi	26
105-310		maxi	10
105-326		maxi	26

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Feature

- **High yield**: Unique buffer formulation boosts DNA yields by efficiently removing erythrocytes (Figure 1)
- **High purity**: Novel three-washing process enhances purity, removing protein contaminants and PCR inhibitors (Figure 1)
- **Versatile kit size**: mini (~200 µl), Midi (1~2 ml) and MAXI (3~10 ml) options for various sample volumes
- **Ideal for PCR and qRT-PCR**: High-concentration, pure DNA with no PCR inhibitors (Figure 2)

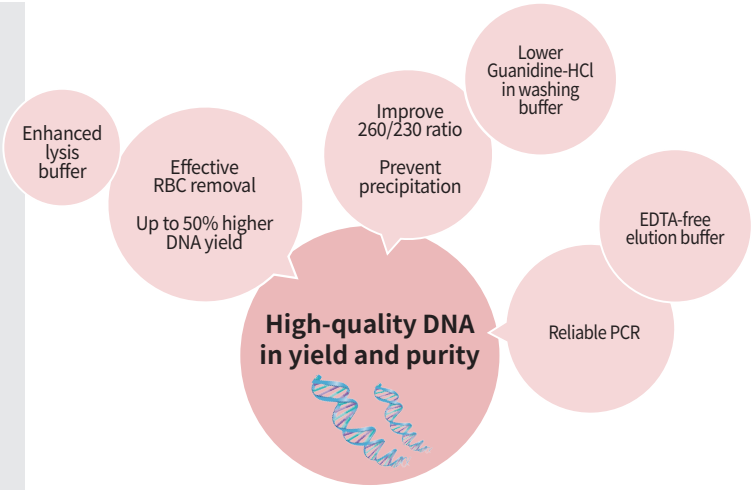
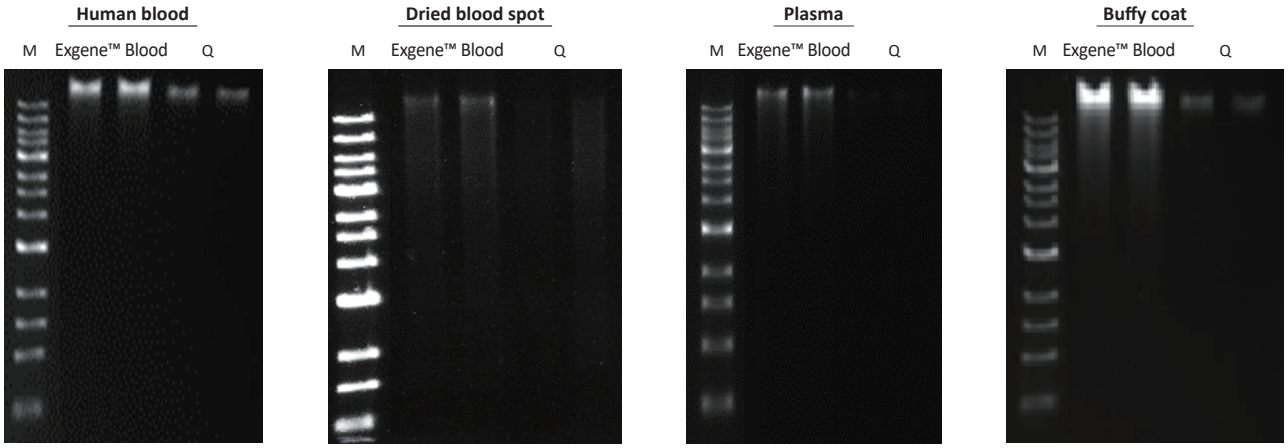
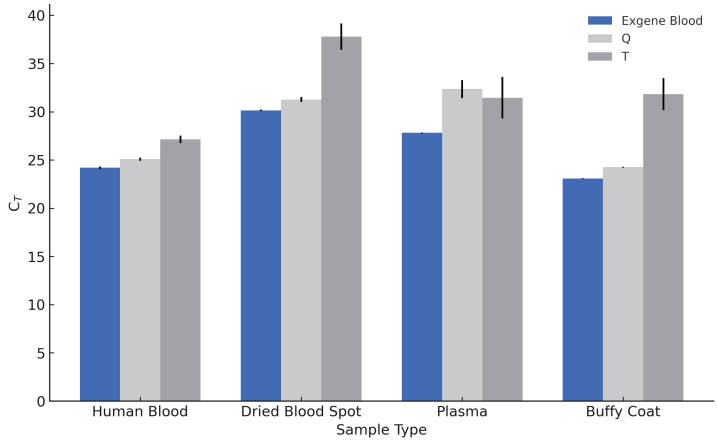


Figure 1. Superior DNA yield and purity



DNA extracted from whole blood, DBS, plasma, and buffy coat using the Exgene™ Blood kit showed higher yield and purity on agarose gel compared to competitor Q's Blood/Tissue DNA kit.

Figure 2. Competitive sensitivity measured by qPCR



DNA extracted from human blood, dried blood spots, plasma, and buffy coat using the Exgene™ Blood kit showed competitive performance and high-quality yields in β-globin real-time PCR analysis compared to competitor kits Q and T.

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