

DNAgard Blood

STABILIZE DNA.

Collect & Transport Whole Blood at Room Temperature

Clinical Research studies often require blood sample collection at multiple geographic sites under a wide range of conditions. DNAgard Blood is designed for the immediate stabilization of DNA in blood with the convenience of room temperature processing and shipping. The aqueous storage reagent rapidly permeates cellular structures and membranes to stabilize and protect genomic DNA. The use of DNAgard Blood allows a streamlined workflow from blood collection in the field to sample processing in the laboratory.

Features & Benefits:

- **Sample Integrity:** Maintain blood under optimal conditions
- **Consistency:** From site to site & from sample to sample
- **Efficiency:** Room Temperature handling and shipping
- **Quality** recovered DNA

Easy handling and shipping

No dry ice required

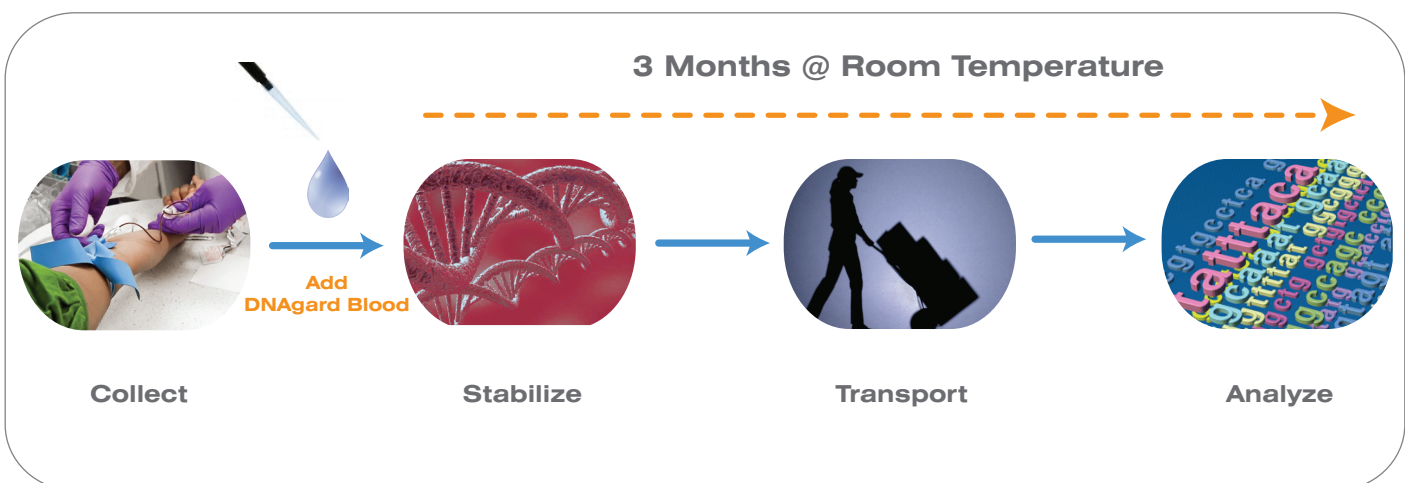
Ideal for field collection

High-quality DNA

Eco-friendly

Optimized sample collection process

Technology Overview



Stabilization of blood DNA at Room Temperature - Convenient Shipping

DNAgard Blood rapidly mixes with blood and penetrates cells to stabilize and protect genomic DNA for at least **3 months** at room temperature. Samples can be easily shipped without refrigeration system. DNAgard Blood also protects DNA in whole blood subjected to temperature fluctuations during shipping (Figure 1B).

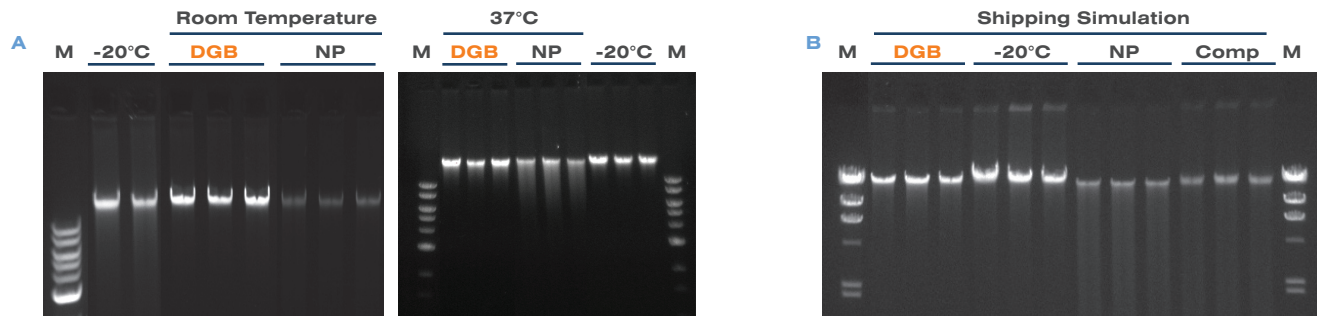


Figure 1. DNAgard Blood protects DNA in various temperature conditions (from -20°C to 45°C). Genomic DNA isolated from human whole blood stored in different conditions (Gel images of 0.8% agarose gel). **A.** Whole blood was stored at room temperature for 3 months or at 37°C for 27 days in DNAgard Blood (DGB) or non-protected (NP). Controls were stored at -20°C. **B.** DNA from blood samples stored in DNAgard Blood (DGB), non-protected (NP) or in competitor's stabilizer and exposed to a 14 days simulated shipping cycle with temperature fluctuations between -20°C and 45°C. Following samples were stored for 36 days at ambient room temperature before DNA extraction. (M = 1 kb ladder).

Broad range of downstream applications

DNA protected using DNAgard is suitable for use in many downstream applications, such as long-range PCR, real time PCR, genotyping, etc.

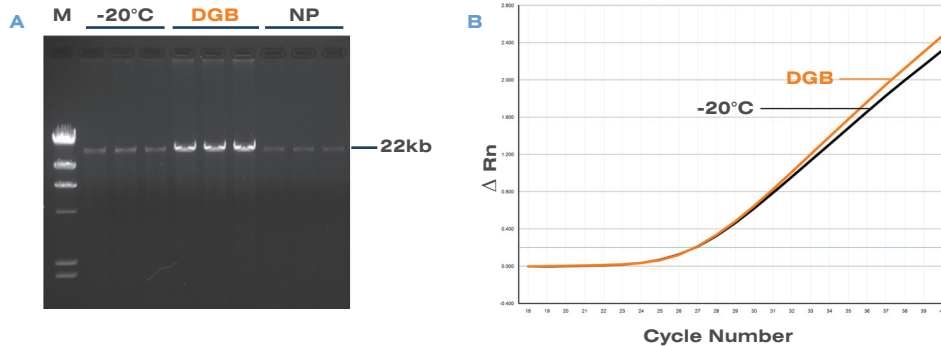
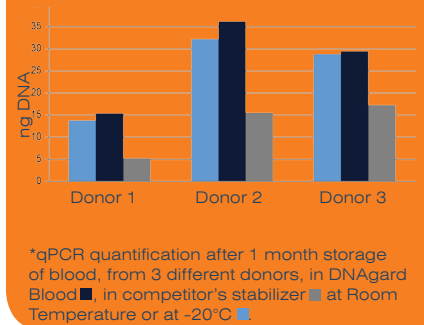


Figure 2 A. Successful Long-range PCR after 2 months storage. Genomic DNA isolated from human whole blood stored for 60 days in DNAgard Blood (DGB), non-protected (NP) or frozen at -20°C. Long-range PCR amplification of a 22 Kbp amplicon was performed on the DNA (M = 1 kb ladder).

Figure 2 B. Real-time PCR after 1 month storage. Genomic DNA isolated from human whole blood stored for 30 days in DNAgard Blood (DGB) or frozen at -20°C was quantified using real-time PCR amplification of the β -actin gene.

Representative DNA yields*



Ordering information:

call 866-379-6879, email contact@biomatrixa.com, or visit www.biomatrixa.com

| Product | Cat. No. | Contents |
|-----------------------|-----------|---|
| DNAgard Blood, 10 ml | 62501-026 | DNAgard reagent 10 ml (stabilizes at least 40ml of blood) |
| DNAgard Blood, 50 ml | 62501-036 | DNAgard reagent 50 ml (stabilizes at least 200ml of blood) |
| DNAgard Blood, 100 ml | 62501-046 | DNAgard reagent 100 ml (stabilizes at least 400ml of blood) |