

DNAgard Tissue

STABILIZE DNA.

Collect, Ship and Store Tissues & Cells at Room Temperature

DNAgard® Tissue is designed for the immediate stabilization of DNA from mammalian cells and tissues with the convenience of room temperature shipping, processing and storage. The reagent rapidly permeates cell membranes to stabilize and protect genomic DNA. Recovery is by simple rehydration, after which samples are ready for DNA isolation and downstream analysis applications.

Benefits:

- Protection from degradation of DNA at room temperature
- Convenient tissue storage and shipment at room temperature
- High quality DNA recovery
- Elimination of refrigeration and reduced shipping costs

Easy handling and shipping

No dry ice required

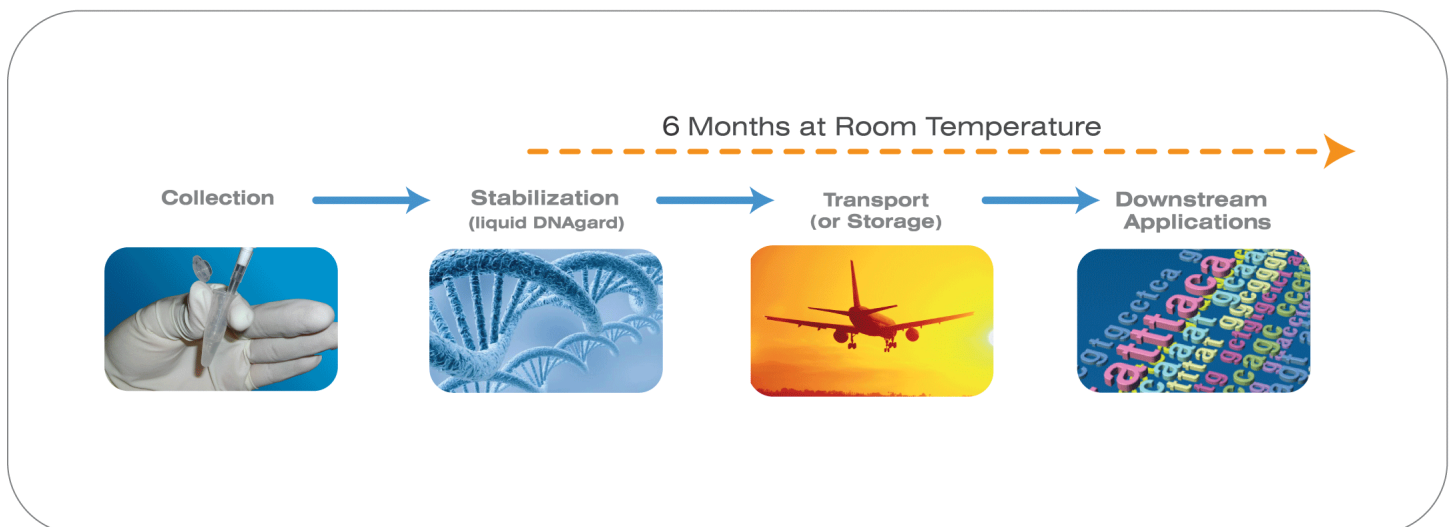
Ideal for field collection and tissue harvesting

High-integrity DNA

Eco-friendly

No inhibition in downstream analyses

Technology Overview



Stabilization of DNA at Room Temperature (liquid format)

The aqueous storage reagent rapidly permeates cell membranes to stabilize and protect genomic DNA for at least **6 months** at room temperature. Samples can be shipped in this format.

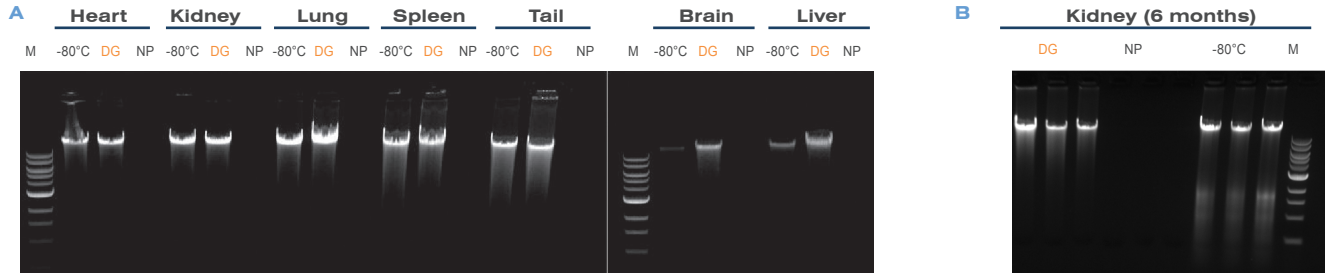


Figure 1. DNAgard protects DNA in a variety of tissues. Gel images showing genomic DNA isolated from a variety of rat tissues (25mg) stored for 70 (A) and 195 days (B), respectively, in DNAgard (DG), water (non-protected; NP), FTA® cards (FTA) or frozen at -80°C. DNA was analyzed on a 0.8% agarose gel. (M = 1kb ladder).

Broad range of downstream applications

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

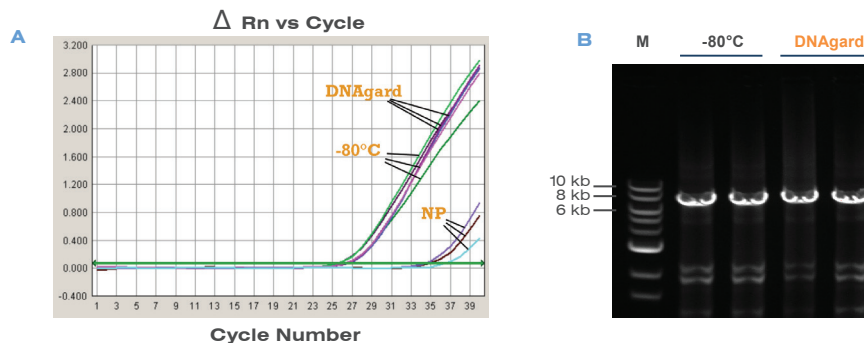


Figure 2 A. Real-time PCR after 2 months of storage. Genomic DNA isolated from rat kidney tissue was stored in duplicate for 71 days in DNAgard, water (non-protected; NP) or frozen at -80°C. DNA was quantified using real-time PCR amplification of the β -actin gene.

Figure 2 B. Successful long-range PCR after 2 months of storage. Genomic DNA isolated from rat kidney tissue was stored in duplicate for 49 days in DNAgard at 37°C or frozen at -80°C. Long-range PCR amplification of a 7270 bp amplicon was performed on DNA (M = 1 kb ladder).

Representative DNA yields* (ng/mg)

Sample	-80°C	DNAgard
Heart	138	102
Kidney (#)	245	245
Liver	51	194
Brain	13	64
Lung	186	194
Tail	103	145
293T cells**	2.8 μ g	2.6 μ g

*Picogreen quantification after 2 months storage in liquid DNAgard at RT or at -80°C. **Total DNA/10⁶ cells.

Ordering information:

Call 866-379-6879, email info@biomatrica.com or visit www.biomatrica.com

Product	Cat. No.	Contents
DNAgard Tissue Trial Kit	63020-016	DNAgard solution (3 tubes x 500 μ L)
DNAgard Tissue, 100 mL	62001-046	DNAgard solution 100 ml (200 x 500 μ L reactions)
2 mL Tubes (empty)	93026-090	(100) barcoded 2 mL screw cap tubes

