

AMBIENT • STABLE • FLEXIBLE

Stabilize high molecular weight DNA in buffy coat samples at ambient temperature

HEMAGene™•BUFFY COAT is a DNA stabilizing reagent designed for ambient temperature transport and room temperature archival storage, while enabling flexible sample management workflows. Maximize the utility of fresh and archived buffy coat samples for downstream DNA applications.

- **DNA from buffy coat is stable for long-term storage at room temperature**
- **Simplify shipping logistics and decrease costs with elimination of cold chain**
- **Eliminate risk of sample loss and degradation and reduce carbon footprint**
- **Optimized for use with standard blood extraction solutions**
- **Enable flexible aliquot schemes**
- **Scalable solution for automated processing**
- **DNA suitable for any downstream application**

"Implementation of room temperature storage across the Stanford campus could not only reduce energy consumption and greenhouse gas emissions, but also save money, conserve valuable lab space and reduce disaster risk of the current sample collection."

Room temperature biological sample storage, Stanford University Pilot, April 16 2009
(<http://medfacilities.stanford.edu/sustainability/downloads/RoomTempStoragePilotResults.pdf>)



Catalog #: HG-BCD-250

For more information contact
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“Room temperature storage of biological samples is an alternative to ultra low temperature frozen storage that can significantly reduce energy use while enhancing sample management and space utilization.”

Benefits

Transport:

- Eliminate cold chain for transport of buffy coat samples to enable sample sharing between multiple locations
- Reduce packaging and shipping costs by 78%¹ with the elimination of dry ice

Flexibility:

- Defer cost of DNA extraction until samples are accessed for processing
- Compatible with freezing and can withstand multiple freeze-thaw cycles

Storage:

- Shield samples from degradation and eliminate risk of relocating specimens due to power failures
- Reduce freezer footprint and temperature monitoring devices for eligible specimens

Liquid vs. dry state stabilizer:

- Sample remains in liquid state
- 100% of the DNA is available for recovery
- Unlimited application volume
- No drying time, speed vac or rehydration required

*Room Temperature Storage of
Biological Samples, Laboratories
for the 21st Century, March 2011
([http://www.i2sl.org/documents/
toolkit/bulletin_rtss_508.pdf](http://www.i2sl.org/documents/toolkit/bulletin_rtss_508.pdf))*

Optimized for use with standard blood extraction protocols

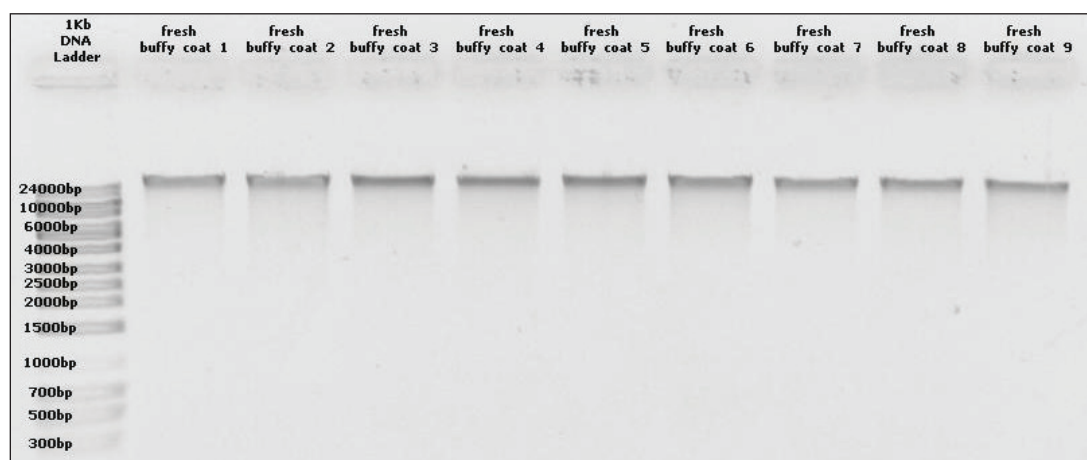


Figure 1: 200 μ L aliquots from buffy coat in HEMAgene[®]-Buffy Coat DNA stabilizing reagent were used for genomic DNA isolation using the Promega ReliPrep Blood gDNA Miniprep System. DNA samples (~100 ng) were run on a 1% agarose gel. High molecular weight genomic DNA bands were visualized by UV illumination.

Product specifications

Catalogue #	Contents	Weight	Shelf-life	Stability post-use
HG-BCD-250	250 mL HEMAgene•BUFFY COAT DNA stabilizing reagent suitable for 50 × 0.5 mL buffy coat sample	292 g	Up to 24 months	1 year [†]

¹ Cost savings of shipping buffy coat samples at ambient temperature using HEMAgene•BUFFY COAT. DNA Genotek. PD-WP-00034.

† Based upon ongoing accelerated aging study.

HEMAgene™•BUFFY COAT is for research use only, not for use in diagnostic procedures.

Some DNA Genotek products may not be available in all geographic regions.

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