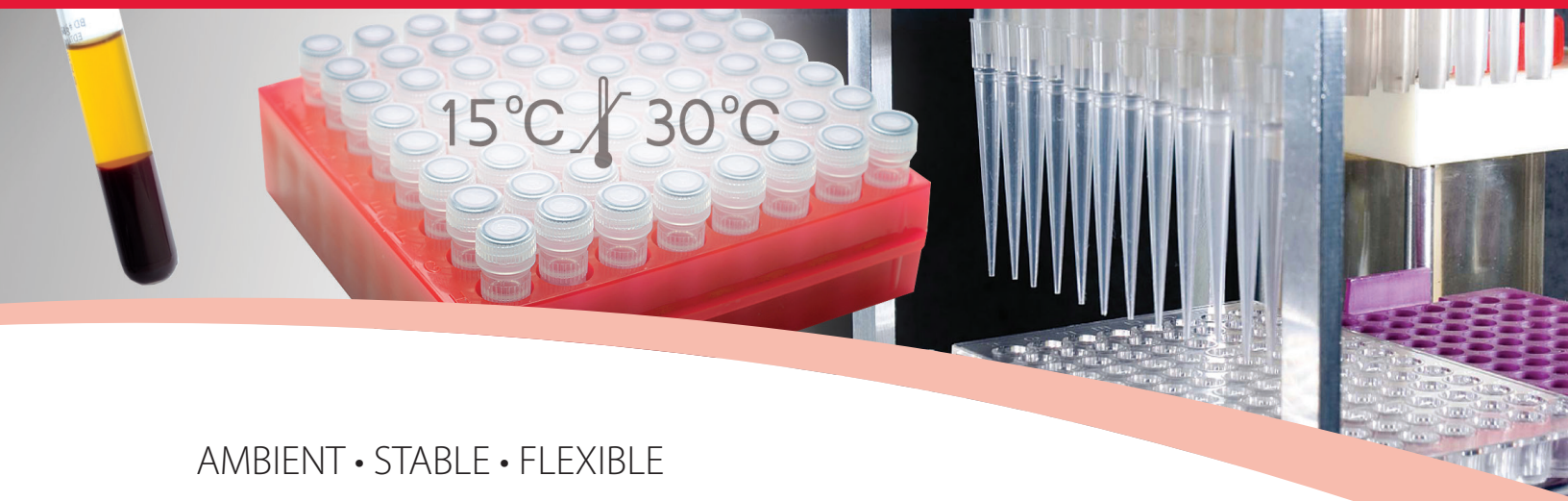
HEMAgene™•BUFFY COAT

HG-BCD



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 storage of buffy coat samples. This reagent maximizes the utility of both fresh and frozen buffy coat samples for any downstream DNA application.

- **Long-term room temperature stabilization of DNA in buffy coat[1]**
- **Easy and cost-effective shipping – no cold chain**
- **Added protection for frozen buffy coat samples[2]**
- **Optimized for use with standard blood extraction solutions**
- **Liquid stabilizer for added workflow flexibility**

Catalog #: HG-BCD-250

For more information contact info@dnagenotek.com

"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)

For Research Use Only
Not for use in diagnostic procedures

DNA Genotek Inc.
2 Beaverbrook Road
Ottawa, ON, Canada K2K 1L1
Subsidiary of OraSure Technologies, Inc.

Toll-free (North America): 1.866.813.6354
Tel.: 613.723.5757 • Fax: 613.723.5057
www.dnagenotek.com
info@dnagenotek.com

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HEMAgene™•BUFFY COAT

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.

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

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%[3] 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:

- Store buffy coat samples at room temperature or at -80°C
- 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

Long-term room temperature stabilization of DNA in buffy coat

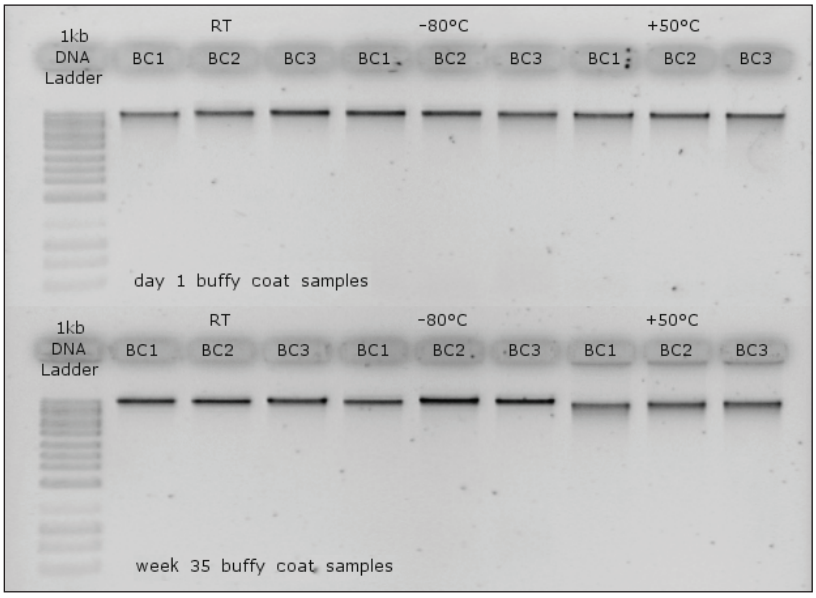

***Figure 1**: 200 µL aliquots of HEMAgene•BUFFY COAT samples stored at room temperature (RT), -80°C and +50°C for the indicated time periods were used for genomic DNA isolation using the Promega Reliaprep Blood gDNA Miniprep System (day 1 samples) and the Agencourt® GenFind™ v2 blood and serum genomic isolation kit (35 week samples). 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 samples	292 g	Up to 24 months	3 years†

[1] Long-term stability of DNA from buffy coat samples stored in HEMAgene•BUFFY COAT DNA stabilizing reagent. DNA Genotek. PD-WP-00036.
[2] HEMAgene•BUFFY COAT DNA stabilizing reagent protects DNA in buffy coat samples through multiple freeze-thaw cycles. DNA Genotek. PD-WP-00033.
[3] Shipping buffy coat samples at ambient temperature using HEMAgene•BUFFY COAT DNA stabilizing reagent leads to cost savings and total sample protection. 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.

Superior samples • Proven performance

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Not for use in diagnostic procedures

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