

# Safe-Wrap COMBO BLOOD COLLECTION TUBES

## INTENDED USE

RNA Medical® Brand *Safe-Wrap Combo Blood Collection Tubes*, for use with the Abbott Point of Care i-STAT® System, are used for the collection of capillary blood samples for use with i-STAT blood gas, electrolyte, and chemistry cartridges requiring either 95  $\mu\text{L}$  or 65  $\mu\text{L}$  of sample.

95  $\mu\text{L}$  cartridges: G3+, CG4+, EG6+, EG7+, CG8+, CHEM8+

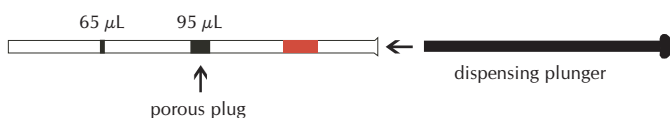
65  $\mu\text{L}$  cartridges: 6+, EC8+, EC4+, E3+, G, Crea

## PRODUCT DESCRIPTION

Safe-Wrap Combo Blood Collection Tubes are Mylar®-wrapped glass capillary tubes that have been treated with calcium-balanced lithium heparin to prevent the sample from clotting. The Mylar minimizes the risks associated with broken glass capillaries by containing both the glass and the sample in the event of accidental breakage. This product is packaged in cylinders containing 50 tubes and 50 dispensing plungers.

Each Safe-Wrap Combo Blood Collection Tube has several bands printed on the tube. The red band marks the end for plunger insertion. The wide black band represents the 95  $\mu\text{L}$  fill line and the narrow black band indicates the 65  $\mu\text{L}$  fill line. A porous plug is positioned at the 95  $\mu\text{L}$  mark (see *Figure 1*).

Figure 1:



During collection, blood stops when it reaches the porous plug. The plunger is used to reposition the porous plug to the 65  $\mu\text{L}$  fill mark (for 65  $\mu\text{L}$  cartridges) and to dispense the sample into the cartridge.

## STORAGE AND SHELF LIFE

Safe-Wrap Combo Blood Collection Tubes have a shelf life of twenty-four (24) months from the date of manufacture when stored at 2-30 °C.

## PRODUCT SPECIFICATIONS

Volume: 95  $\mu\text{L}$  or 65  $\mu\text{L}$  (approximately).

Packaging: 50 tubes and 50 plungers per cylinder.

Storage: 2-30 °C.

Shelf Life: 24 months from date of manufacture.

Material: Mylar-wrapped glass.

Heparin: 70 IU/mL (approximately) of calcium-balanced lithium heparin.

## SAFETY AND REGULATORY CONCERNS

A joint advisory letter from the FDA, NIOSH, and OSHA addresses the potential risk of injury and/or infection due to accidental breakage of glass capillary tubes<sup>1</sup>. In addition, certain laboratory accreditation and inspection programs reference this letter and require that the use of plain glass capillary tubes for specimen collection and handling be discontinued for safety reasons<sup>2</sup>. Suggested ways to reduce the risks include the use of non-glass capillary tubes or glass capillary tubes wrapped in a puncture-resistant film<sup>1,2</sup>.

Non-glass capillaries can pose their own concerns. Historically, glass has been the preferred material for capillary tubes used to collect blood gas samples. In addition, the flexible nature of some non-glass devices can result in aerosol formation and specimen loss if the tube should be bent or bumped during collection, transport, or testing.

RNA Medical Safe-Wrap Combo tubes provide:

- Mylar wrapping to help contain both the sample and the glass in the event of accidental breakage.
- Reduction of potential biohazards associated with broken glass and aerosol formation.
- Preferred material for capillary blood gas specimen collection.
- Regulatory compliance.

## ORDERING INFORMATION

Please specify this catalog number when ordering Safe-Wrap Combo Blood Collection Tubes.

| Catalog # | Description                            |
|-----------|--|
| CT 095    | Safe-Wrap Combo Blood Collection Tubes |

## ADDITIONAL PRODUCTS

Other products from RNA include blood gas quality control products, calibration verification and linearity controls, and QC materials for various point of care tests. For further information about Safe-Wrap Combo Blood Collection Tubes or any other RNA Medical product, please call us or visit our website at [www.RNAMedical.com](http://www.RNAMedical.com).

RNA Medical is a registered trademark of Bionostics, Inc., Devens, MA, USA. i-STAT is a registered trademark of i-STAT Corporation, East Windsor, NJ, USA. Mylar is a registered trademark of E.I. Dupont, Wilmington, DE, USA.

1. Burlington, D. Bruce, Charles N. Jeffress, and Linda Rosenstock. Glass Capillary Tubes: Joint Safety Advisory About Potential Risks. [Centers for Disease Control and Prevention](http://www.cdc.gov/niosh/capssa9.html). February 1999. United States Department of Health and Human Services. 1 June 2006. <<http://www.cdc.gov/niosh/capssa9.html>>.
2. Laboratory General Checklist. [College of American Pathologists](http://www.cap.org/apps/docs/laboratory_accreditation/checklists/laboratory_general_april2006.pdf). 6 April 2006: GEN.71032, page 110. 1 June 2006. <[http://www.cap.org/apps/docs/laboratory\\_accreditation/checklists/laboratory\\_general\\_april2006.pdf](http://www.cap.org/apps/docs/laboratory_accreditation/checklists/laboratory_general_april2006.pdf)>.

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