

Safe-Wrap BLOOD COLLECTION TUBES

INTENDED USE

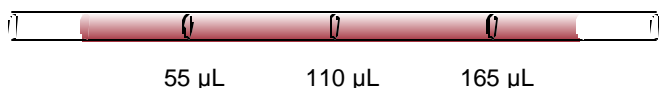
RNA Medical® Brand *Safe-Wrap Blood Collection Tubes* are Mylar®-wrapped glass capillary devices used for the collection of capillary blood samples for the measurement of pH, blood gases, and electrolytes (excluding lithium).

PRODUCT DESCRIPTION

Safe-Wrap Blood Collection Tubes are glass capillary tubes that have a Mylar wrapping. The Mylar wrapping serves to minimize the risks associated with broken glass capillaries, including glass cuts and aerosol formation, by containing both the glass and the sample in the event of accidental breakage.

Each tube can hold up to 220 µL and has the feature of line markings (reference Figure 1) at 55, 110 and 165 µL fill (approximately). This eliminates the guesswork and provides flexibility when the sample is collected, minimizing the likelihood of short draws. Tubes are packaged in cylinders containing 100 capillaries each.

Figure 1:



Safe-Wrap Blood Collection Tubes are treated with heparin (derived from porcine intestinal mucosa) to prevent the blood sample from clotting. Each tube contains approximately 70 IU of calcium-balanced lithium heparin per mL of whole blood sample.

STORAGE AND SHELF LIFE

Safe-Wrap 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: 220 µL with line markings at 55, 110 and 165 µL fill (approximately).

Packaging: 100 tubes per cylinder.

Storage: 2-30 °C.

Shelf Life: 24 months from date of manufacture.

Material: Mylar-wrapped glass.

Heparin: 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.¹ 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.² Suggested ways to reduce the risks include the use of non-glass capillary tubes or glass capillary tubes wrapped in a puncture-resistant film.^{1,2}

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 Blood Collection 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 these catalog numbers when ordering Safe-Wrap Blood Collection Tubes or corresponding End Caps.

Catalog #	Description
CT 220	Safe-Wrap Blood Collection Tubes
EC 220	End Caps (closure devices for CT 220)

ADDITIONAL PRODUCTS

RNA Medical has a broad line of blood gas and critical blood analyte control products, including Calibration Verification Controls with on-line graphing options. For further information about Safe-Wrap Blood Collection Tubes, Calibration Verification Controls, or any other RNA Medical product, please contact us at the number listed below or visit our website at www.RNAMEDICAL.com.

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* February 1999. United States Department of Health and Human Services. 16 May 2005 <<http://www.cdc.gov/niosh/capssa9.html>>.
2. "Laboratory General Checklist." *College of American Pathologists*. 30 March 2005: GEN.71032. page 110. 16 May 2005. <http://www.cap.org/apps/docs/laboratory_accreditation/checklists/laboratory_general_march2005.pdf>.