

## **TITLE: Safe-T-Vue® 10**

### **Principle:**

Safe-T-Vue® 10 is a temperature-sensitive indicator used by health care providers to determine if blood or blood products have maintained temperature compliance at 1-10°C during transport. The irreversible color change, from white to red, indicates that the blood or blood products have reached and exceed 10°C. Due to the irreversible color change, Safe-T-Vue 10 will indicate that a high temperature condition existed even if the temperature eventually returns to a lower level. As long as the indicator remains white, temperatures have remained at or below 10°C and the blood and blood products may be stored for future use.

### **Personnel:**

All blood bank staff must be familiar with this procedure.

### **Storage and preparation:**

1. The Safe-T-Vue® 10 (STV 10) can be stored or shipped at room temperature.
2. The STV 10 must be stored at 1-6°C for at least 24 hours prior to use.
3. When the STV 10 is not used within 2 months of initial refrigeration, it must be taken out of the refrigerator and bring to room temperature for 24 to 48 hours.
4. After 24 to 48 hours of being placed at room temperature, the STV 10 can cycle back in the refrigerator following step 2 above for future use.
5. The STV 10 can be cycled in and out of refrigeration every 2 months until its expiration.

### **Important notes:**

1. A minimum of one (1) box of STV 10 must be kept inside the refrigerator at all time.
2. Date/Time in and out of the refrigerator must be clearly documented on the pink [Safe-T-Vue® 10 refrigeration tracking sticker (Proc.#4840-BB-414.1S)]

### **Stepwise procedure:**

#### **1) Handling and Application:**

1. Hold STV 10 by the outer edges.
  - Do not touch temperature sensitive indicator area as body temperature may pre-warm the indicator and affect accuracy.
2. Remove the adhesive backing.
3. Apply the STV 10 to the area of the blood bag with the largest volume.
  - If necessary, prep the blood bag with an alcohol wipe to ensure good adhesion.

**2) Activation:**

1. Pull back the foil to expose the indicator's active areas.
2. Touching of the center indicator areas must be avoided.
3. Fold the rounds together and snap shut.
4. The indicator is now ready to monitor the temperature of the blood.

**3) Interpretation:**

Observation	Temperature Range	Interpretation	Reason
All White	< 9°C	Okay to use	The blood product temperature was maintained within proper transport temperature.
Random Red Spots	≈ 9.5 °C	Okay to use	The blood product should be cooled or re-refrigerated immediately.
All Red	≥ 10°C	NOT okay to use	The blood product temperature exceeds the allowable transport temperature, the blood product must be quarantined and/or discarded.

**Calibration:**

Calibration should be done annually. See proc.#4840-BB-414.1C (Safe-T-Vue® 10 Calibration)

**Quality Control:**

The temperature of STV 10 is accurate to within ± 0.4°C.

**Reporting Results:**

N/A

**Calculations:**

N/A

**Reference ranges:**

1. White -  $< 9^{\circ}\text{C}$
2. Random red spots -  $\approx 9.5^{\circ}\text{C}$
3. All red -  $\geq 10^{\circ}\text{C}$

**Notes:**

STV can be used for whole bloods (WBs), packed red blood cells (pRBCs), and refrigerated plasmas (FFPs).

**Related Documents:**

- 1) Proc. #4840-BB-414.1C (Safe-T-Vue Calibration)
- 2) Proc. #4840-BB-414.1F (Safe-T-Vue<sup>®</sup> Calibration From)
- 3) Proc. #4840-BB-414.1JA (Safe-T-Vue<sup>®</sup> Interpretation Bookmark)
- 4) PRoc. #4840-BB-414.1S (Safe-T-Vue<sup>®</sup> Refrigeration Tracking Stickers)

**References:**

- 1) AABB, Standards for Blood Banks and Transfusion Services, *current edition*
- 2) 21 CFR 600.15(a)
- 3) Safe-T-Vue 10 package insert – Instruction for Use
- 4) Safe-T-Vue<sup>®</sup> Interpretation Bookmark