



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.

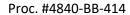
Important notes:

- 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 prewarm 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 | ≈ 9.5 °C | Okay to use | The blood product should be |
| Spots | | | 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 should be done annually. See proc.#4840-BB-414.1C (Safe-T-Vue® 10 Calibration)

| The temperature of STV 10 is accurate to within ± 0.4°C. |
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| Reporting Results: |
| N/A |
| Calculations: |
| N/A |

Reference ranges:

Calibration:

Quality Control:



Rush Copley Medical Center

Proc. #4840-BB-414

- 1. White < 9°C
- 2. Random red spots ≈ 9.5 °C
- 3. All red \geq 10°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® Calibration From)
- 3) Proc. #4840-BB-414.1JA (Safe-T-Vue® Interpretation Bookmark)
- 4) PRoc. #4840-BB-414.1S (Safe-T-Vue® 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® Interpretation Bookmark