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| **University of Washington,** **Harborview Medical Center****325 9th Ave. Seattle, WA, 98104****Transfusion Services Laboratory****Policies and Procedures Manual** | **Original Effective Date:**April 1st, 2011 | **Number:** 5501-3 |
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| TITLE: TANGO Infinity: Bromelin Preparation |

**Purpose:**

To ensure that the Bromelin for Erytype reagent necessary for red cell typing on the TANGO Infinity® is prepared correctly.

**Procedure:**

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| --- | --- | --- |
| **Step** | **Action** | **Related Documents**  |
| **General Statements** |
| 1 | Bromelin is used as a diluent for red cells that are to be typed on the TANGO. The product is supplied in a liquid concentrate and requires a 1/20 dilution on each day of use. |  |
| 2 | The operator is responsible for preparing the reagent |  |
| 3 | Required Materials are:* 50 mL clean dry vial(s)
* Bromelin barcode labels
* Unbuffered NaCl (0.9%)
* Bromelin concentrate
* Graduated cylinder
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| 4 | Precautions:* Bromelin concentrate is stored at 2-8 oC
* Do not use buffered saline to prepare the Bromelin dilution.
* Prepared working reagent is good for 24 hours.
* When disposal of working reagent is necessary, dispose in the liquid waste container.
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| **Preparation of the Diluted Bromelin (working solution).** |
| 5 | Apply one of the supplied barcode labels on a clean, dry 50 mL vial |  |
| 6 | Dispense 1 part Bromelin concentrate into the vial. |  |
| 7 | Dispense 19 parts unbuffered NaCl (0.9%) into the vial. |  |
| 8 | Swirl to mix Bromelin and saline or use the cap from the Bromelin vial, screw it on the 50 mL vial and invert.* If the cap is used, remove prior to placement on the TANGO.
* Avoid foam formation.
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| **Step** | **Action** | **Related Documents**  |
| 9 | The working solution has 24 hour expiration. Label the working solution with a sticker stating the preparation date, time and tech ID.* The 100% default on the TANGO assumes a 50 mL fill volume in a 50 mL reagent bottle.
* If more than 50 mL will be needed in a 24 hour period, prepare adequate amount of reagent and aliquot between two (2) or more bottles.
* The TANGO can accept more than one bottle of the same reagent.
* Document time/date made and time/date expiring on the Tango Reagent Form

Preparing one batch and aliquoting the reagent into multiples bottles will eliminate the need to perform QC as is required with each new preparation/batch. | **TANGO Infinity: Daily QC Reagent Dating Verification and Additional Tango Reagents Form** |

**Table A: Examples of volume preparation**

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| **Total Volume (ml)** | **Bromelin (ml)** | **Saline (ml)** | **% Volume (approx.)** |
| 55 | 2.75 | 52.25 | 100 |
| 50 | 2.5 | 47.5 | 90 |
| 45 | 2.25 | 42.75 | 80 |
| 40 | 2.0 | 38 | 70 |
| 35 | 1.75 | 33.25 | 60 |
| 30 | 1.5 | 28.5 | 50 |
| 25 | 1.25 | 23.75 | 40 |
| 20 | 1.0 | 19 | 30 |
| 15 | 0.75 | 14.25 | 20 |
| 10 | 0.5 | 9.5 | 10 |

**References:**

TANGO Infinity® System User Manual, Version 1.2.1