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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:** **5501-2** |
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| TITLE: Tango Bromelin Preparation |

**Purpose:**

This procedure describes the procedure for preparing Bromelin for red cell typing on the TANGO instrument.

**Procedure:**

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| **Step** | **Action** | **Related Documents**  |
| **General Statements** |
|  | * 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.
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|  | * The operator is responsible for preparing the reagent
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|  | * Required Materials are:
* 50 mL clean dry vial(s)
* Bromelin barcode labels
* Unbuffered NaCl (0.9%)
* Bromelin concentrate
* Graduated cylinder
 |  |
|  | * 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).** |
|  | * Apply one of the supplied barcode labels on a clean, dry 50 mL vial (supplied with the TANGO).
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|  | * Dispense 1 part Bromelin concentrate into the vial.
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|  | * Dispense 19 parts unbuffered NaCl (0.9%) into the vial.
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|  | * 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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|  | * The working solution has a 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 55 mL fill volume in a 50 mL reagent bottle.
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| **Step** | **Action** | **Related Documents**  |
| **E. cont** | * If more than 55 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.
* 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.
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 **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 User Guide, Version 3.0.2