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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:** **October 13, 2011** | **Number:** **5538-2** |
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| **TITLE: TANGO: Liquid Container Management** |

**PURPOSE:**

To assure that the containers (tanks) for the liquid used or generated by the TANGO are appropriately filled and emptied. To describe the preparation of Daily System Clean Solution.

**PROCEDURE:**

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| **Step** | **Action** | **Related Documents** |
| 1. | Visually determine the volume in the liquid containers.* Icons at the bottom right of the computer monitor will flash red if one of the tanks is approaching the lower limit (2L) or if the waste tank is full.
* TANGO PC screen will display a “red hand” and a message describing the detected low volume.
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| 2. | Fill the containers as necessary. * System Liquid Container:
	+ Use deionized (DI) water.
	+ Tubing, wires and cap for the System Liquid container are white.
* Wash Buffer Container
	+ Use Phosphate Buffered Saline (PBS pH 7.3 +/- 0.2).
	+ Wires and cap for the Wash Buffer container are blue.
* Cleaning Solution
	+ See Section B to prepare cleaning solution.
	+ Sensor wires and cap for the cleaning solution container are black.
	+ Tubing for the cleaning solution container is clear with a black sheath on the terminal end.
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| 3. | Check the cap, sensor wire and tubing are * Securely connected
* No signs of sensor wire fraying or tubing leakage
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| 4. | After filling or replacing a container, use the ‘Rinsing’ function under ‘Maintenance’ to fill the tubing and remove air bubbles from the lines.* Touch the ‘Maintenance’ button in the ‘Main Menu’.
* Touch the ‘Rinsing’ button to open the ‘Rinsing’ menu.
* Enter the following parameters:
* Pipettor Cycles: 3
* Washer Cycles: 6
* Suspension Cycles: 3
* Touch OK to start the rinsing process.
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| **Step** | **Action** | **Related Documents** |
| 5.  | Empty Waste Container* Disconnect sensor cable
* Unscrew nozzle from the container and place into the biohazard waste bin next to the waste container or on absorbent paper to collect the fluid from the waste line.
* Unscrew cap and empty the container according to Liquid Waste Disposal SOP.
* Check the cap, sensor wire and tubing are securely connected.
 | Liquid Waste Disposal |
| 6. | When the TANGO is ready for operation, ‘Ready’ will appear in the analyzer status field. |  |

**Section B: Daily System Clean Solution**

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| **Step** | **Action** | **Related Documents**  |
| **General Statements:** |
|  | Required Materials are:* Daily System Clean Concentrate
* DI Water
* Daily System Clean Container
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|  | Precautions:* The Daily System Clean comes as a red colored weak acidic concentrate. The working solution is approximately pH 3. Avoid contact with skin and eyes.
* Wear appropriate personal protective equipment such as lab coat, gloves, and safety glasses.
* Remove contaminated soaked clothing immediately and dispose of safely.
* In case of eye or skin contact, rinse thoroughly with copious amounts of water, seek medical attention if necessary
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| **Preparation of Daily Cleaning Solution** |
| 1 | To prepare the working solution, dilute the Daily System Clean concentrate with DI Water to a 1/20 solution. |  |
| 2 | Add the 250 mL of Daily System Clean concentrate to 4750 mL of DI Water slowly to avoid foam in the Daily System Clean Container. |  |
| 3 | Close the container with lid and mix contents by swinging the container. |  |
| 4 | Label container with:* + Lot number
	+ Creation date
	+ Expiration: 6 months after creation date
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**REFERENCES:**

TANGO User Guide, Version 3.3

Biotest Daily System Clean Product Information Sheet