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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:** **5535-3** |
| **Revision Effective Date:**12/15/13 | **Pages: 3** |
| TITLE: Tango Weekly Maintenance |

**Purpose:**

To assure that the TANGO is maintained properly according to the TANGO User Guide and manufacturer’s recommendations.

**Required Materials:**

* Tango Maintenance Form
* Lint free wipes
* CLR (Clinical Laboratory Reagent) Water
* Microcide SQ Solution
* Disinfectant

**Procedure:**

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| **Step** | **Action** | **Related Documents**  |
| **A.** | Obtain a Tango Maintenance form. Record the date and the operator’s initials as each task is completed. |  |
| **B.** | From the Main Menu, select the ‘Maintenance’ button then select the ‘Remove Front Cover’ button. |  |
| **C.** | Remove the acrylic glass cover. |  |
| **D.** | Clean the Optical Filter |  |
| 1. | Pull the carrier out of the TANGO. It is located on the right side of the instrument. |  |
| 2. | Carefully clean the filter using a lint free wipe. Do not scratch the filter as this could adversely impact the interpretation of the reaction images. |  |
| 3. | Insert the carrier back in to the TANGO with the grooves facing up, until it clicks into place. |  |
| **E.** | Clean the pipettor wash stations |  |
| 1. | Clean the exterior of the wash stations with CLR water or other suitable cleaning solution. |  |
| 2. | The interior of the wash stations are cleaned daily using the ‘Auto Rinsing’ function. |  |
| **F.** | Flush the system with Microcide SQ Solution. |  |
| 1. | Prepare Microcide SQ Solution.* See Microcide SQ Solution SOP
* Fill an appropriate container or flask with 400mL of Microcide SQ Solution. (100mL Microcide + 300mL CLR water).
 |  |
| 2. | Unscrew the tubing from the Wash Solution and System Liquid containers. |  |
| 3. | Place the tubing in the container with the Microcide Solution.* The ends of the tubing must be completely submerged in the Microcide SQ Solution.
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| 4. | Perform Decontamination by means of the ‘Decontamination’ function with the following parameters.* Pipettor Cycles: 2
* Washer Cycles: 3
* Suspension Cycles: 1
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| 5. | Once the rinse cycles are complete, let the Microcide SQ Solution sit in the instrument for 15 minutes. |  |
| 6. | During this time, remove the tubing from the Microcide Solution and rinse with CLR water. Also, remove the cover of the suspension cup and rinse thoroughly with CLR water. Dry both the tubing and the cover. |  |
| 7.  | After the Microcide SQ Solution has sat in the TANGO for 15 minutes, fill an appropriate container with 2L of CLR water.* Place the tubing from the System Liquid and Wash Solution containers in the CLR water.
* Rinse the system by means of the ‘Decontamination’ function with the following parameters.
* Pipettor Cycles: 6
* Washer Cycles: 5
* Suspension Cycles: 3
* Once the rinse is completed, reconnect the tubing back to the System Liquid and Wash Solution containers.
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| **G.** | Clean and Decontaminate ContainersNOTE: This step may be done, as time allows, during the 15 minutes the Microcide SQ Solution is sitting in the instrument. |  |
| 1. | Decontaminate the System Liquid and Wash Solution containers.* Unscrew the cap from both.
* Empty the contents of each container.
* Divide the remaining Microcide SQ Solution equally between the two containers.
* Screw the cap back on each container and shake thoroughly.
* Empty each container, reserving the Microcide SQ for step 2, and rinse thoroughly with CLR water.
* Refill containers with appropriate liquid and replace caps. Ensure there are no bubbles in the containers prior to priming.
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| 2. | Decontaminate the Waste Container.* Disconnect sensor cable.
* Unscrew nozzle from the container and place it in container or on absorbent paper to collect the fluid from the waste line.
* Unscrew cap and empty container according to institutional regulations.
* Add Microcide SQ Solution reserved from step 1 to the container.
* Screw cap on the container and shake thoroughly.
* Allow the solution to stand in the container for 30 minutes.
* After 30 minutes, unscrew cap and empty Microcide SQ Solution from the Waste container.
* Replace nozzle and cap on the container.
* Connect Sensor Cable.
* Place Waste container back on shelf.
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| 3. | Enter the following cycles by selecting the ‘Maintenance’ button, then the ‘Rinsing’ button. Select ‘Start’ to begin rinse* Pipettor Cycles: 3
* Washer Cycles: 3
* Suspension Cycles: 1
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| **H.** | Check syringes and tubing for leaks |  |
| 1. | Check tubing for bubbles. The tubing may be viewed through the acrylic glass window on the rear wall of the analyzer. * Use a flashlight if necessary.
* Small bubbles are normally present in the tubing.
* Large bubbles that move through the tubing are indicative of an air leak in the system or an empty fluid container.
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| 2. | Check syringes for leaks or bubbles as the piston moves up and down. |  |
| 3. | Check for dripping or splattering from the probes. |  |
| 4. | If any of the above conditions exist, check fluid levels of the containers. If there is adequate fluid and the issue persists after priming, contact Technical Service. |  |

**Referenced Documents:**

TANGO User Guide, Version 3.0.2