STEM CELL LABORATORY (STCL)

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DOCUMENT TITLE:

Sysmex XS-1000i Hematology Analyzer as Needed Maintenance

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SYSMEX XS-1000*i* HEMATOLOGY ANALYZER AS NEEDED MAINTENANCE

1. CLEANING AGENT:

   1.1. CLOROX® ULTRA bleach is recommended for use in cleaning of the Sysmex XS-1000i analyzer whenever CELLCLEAN is indicated.

   1.2. CLOROX ULTRA is a 6% (by volume) Sodium Hypochlorite solution. The Sysmex XS-Series Instructions for Use manual recommends using a 5% Sodium Hypochlorite solution as a stock solution for maintenance procedures. To make 50 mL of 5% stock solution from CLOROX ULTRA, use the formula below:

   To make 50 mL of 5% from 6% Sodium Hypochlorite:

   (Conc. 1) x (Vol. 1) = (Conc. 2) x (Vol. 2)

   Example: (6%) x (Vol 1) = (5.00%) x (50 mL)

   V1 = 250/6

   V1 = 42 mL bleach

   Thus 42 mL of bleach and 8 mL of deionized water will make 50 mL of 5% Sodium Hypochlorite solution. Store stock 5% bleach in a dark place to prevent solution degradation from exposure to light.

2. AS-NEEDED MAINTENANCE:

   2.1. Waste Chamber Cleaning (see Sysmex XS-Series Instructions for Use Manual)

      2.1.1. Click [Menu] or press [F4].

      2.1.2. Click "Controller" icon on the menu screen.

      2.1.3. Click "Maintenance" icon. The maintenance screen displays.

      2.1.4. Click on "Rinse Waste". The Rinse Waste dialog box displays.

      2.1.5. Attach the appropriate sample tube adapter.

      2.1.6. Place a tube of 5% Sodium Hypochlorite solution (CELLCLEAN) in the tube adapter.

      2.1.7. Press the Start switch. (Located above the sample tube position on the Main Unit of the XS-1000i without Sampler; inside the sampler cover on the XS-1000i with Sampler) to initiate the cleaning.

      2.1.8. The dialog box closes when the sequence is complete.

      2.1.9. Record on Maintenance Log.

2.2. Perform Rinse Flow Cell Cleaning (perform if Flow Cell in optical detector is suspected to be dirty)

2.2.1. Click [Menu] or press F4.

2.2.2. Click "Controller" icon on the menu screen.

2.2.3. Click "Maintenance" icon. The maintenance screen displays.

2.2.4. Click on "Rinse Flow Cell". The Rinse Flow Cell dialog box displays.

2.2.5. Attach the appropriate tube adapter.

2.2.6. Place a tube of 5% Sodium Hypochlorite solution (CELLCLEAN) in the tube adapter.

2.2.7. Press the Start switch (located above the sample tube position on the Main Unit of the XS-1000i without Sampler; inside the sampler cover on the XS-1000i with Sampler) to initiate the cleaning.

2.2.8. The dialog box closes when the sequence is complete.

2.2.9. Record on Maintenance Log.

2.3. Perform Air Bubble Removal for Flow Cell

2.3.1. Perform if air bubbles in Flow Cell create abnormal aggregate pattern on scattergram.(see Sysmex XS-Series Instructions for Use Manual)

2.3.2. Click [Menu] or press [F4].

2.3.3. Click "Controller" icon on the Menu screen.

2.3.4. Click "Maintenance" icon. The maintenance screen displays.

2.3.5. Click "Remove Air Bubbles". The sequence begins.

2.3.6. The dialog box closes when the sequence is complete.

2.3.7. Record on Maintenance Log.

2.4. Remove RBC clogs with remove clog sequence

2.4.1. Perform when "RBC Clog Error," "RBC Bubble Error", or "RBC/PLT Sampling Error" message displays. (See Sysmex XS-Series Instructions for Use Manual.)

2.4.2. When error message is displayed, the HELP dialog box displays the error. Click on the error.

2.4.3. Click [OK] to begin Clog Removal Sequence.

2.5. Alternate Method for Performing Clog Removal when NO error is displayed.

2.5.1. Click [MENU] or press [F4].

2.5.2. Click "Controller" icon on the Menu screen.

2.5.3. Click "Maintenance" icon. The Maintenance screen displays.

2.5.4. Click on "Remove Clogs" icon and the sequence begins.

Signature Manifest

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All dates and times are in Eastern Time.

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