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| **Sysmex SP-10 Slide Maker / Stainer Super Clean Procedure** | | | | | | | | |
| **Purpose** | Preventive monthly maintenance in order to provide the best quality slides possible and also to eliminate the possibility of bacterial or fungal contamination in the SP-10 Slide Maker Stainer. | | | | | | | |
| **Principle** | A whole line rinse, followed by a shutdown 2 is performed. This will clean the sample aspiration path, smear assembly, waste chambers, stain pipettes and both stain chambers. | | | | | | | |
| **Policy Statements** | * This procedure applies to all laboratory technologists performing hematology testing, section supervisor, and pathologist. | | | | | | | |
| **Materials** | **Equipment** | | | **Reagents** | | | **Supplies** | |
|  | * SP-10 Slide Preparation Unit:   analyzer, printer and associated non-disposable parts | | | ● CellClean Auto:  Cleaning solution used to remove cellular residuals, and blood proteins in the Sysmex analyzer and the SP-10 slide preparation unit.  Single use 4ml vials.  Store at 1-30°C.  Chc# 30236.  • Methanol  Used for cleaning of the staining system and cassettes  Chc# 11223.  ● SP Wrights Stain  Chc# 30458.  ● SP Wrights Stain  Chc# 30458.  • Type I deionized water | | | • Microscope Slides, frosted with rounded / clipped corners  76 x 26mm; 0.9 - 1.2 mm thick  Chc# 30455.  • Sterile Jug for water reservoir. | |
| **Procedure** |  | | | | | | | |
|  | **Step** | **Action** | | | | | | **Related Document** |
|  | 1 | Clean stain pipettes 1 & 2 using methanol. Using an application stick, gently chip off any excess stain build up around the tips of the stain pipettes. | | | | | |  |
|  | 2 | Remove the stain reagent tube from the stain container and insert it into a large sterile bottle with 200 ml of methanol. | | | | | |  |
|  | 3 | Perform the whole line rinse sequence. This is the smear and stain line rinse combined; it takes about 20 minutes. Ensure that there are more than 17 cassettes loaded on the SP-10, the methanol bottle has more than 800 ml of methanol in it, and place a sample tube filled with 5% bleach solution ( Cellclean Auto ) in a rack. Place the rack so that hand  clippers can come out and pick up the tube ( position 10 loaded from the left side of the sampler ).  a.) Press Maint.  b.) Press Rinse  c.) Press Whole Line Rinse | | | | | |  |
|  | 4 | Once the whole line rinse is completed, insert the stain reagent tube back into the stain container. | | | | | |  |
|  | 5 | Perform Shutdown 2. This will clean the sample aspiration path, smear assembly, waste chambers, stain pipettes, plus both stain chambers. It takes about 20 minutes. Ensure that there are more than 9 cassettes loaded on the SP-10, the methanol bottle has more than 800 ml of methanol in it, and place a sample tube with 5% bleach solution  ( Cellclean Auto ) in a rack. Place the rack so that hand clippers can come out and pick up the tube ( position 10 loaded from the left side of the sampler ). | | | | | |  |
|  | 6 | Leave the SP-10 off for 30 minutes after shutdown has been completed. This step is very important; it allows the methanol inside the SP-10 to internally breakdown any stain precipitate build up inside all the reagent lines and to optimize stain reagent delivery for the pipettes. | | | | | |  |
|  | 7 | Start up the SP-10 by pressing the green button. | | | | | |  |
|  | 8 | Run 20 dummy / blank slides before expecting good smear and stain quality. | | | | | |  |
| **Troubleshooting** | 1. Call Sysmex Technical Services (TAC) 1-888-879-7639 be prepared to give the following:  * Serial numbers:   Mpls. – 23179 St. Paul – 23233   * What was going on at time of instrument malfunction | | | | | | | |
| **References** | 1. Sysmex Technical Assistance Center   Sysmex America, Inc. | | | | | | | |
| **Historical Record** | **Version** | | **Written/Revised by:** | | **Effective Date:** | **Summary of Revisions** | | |
| 1 | | Al Quigley | | 09/01/17 | Initial Version | | |