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| **Policy** | Since we do not perform parallel testing on reagents, **ALL** reagents will be tested to verify their performance before XN analyzer is used to process patients.  The Reagent Verification Logbook will be used to record the reagent lot numbers, their in-use date and an indication that **Background Check or QC** has been performed, reviewed and determined acceptable by the CLS. |

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| |  |  | | --- | --- | | Workplace Safety | All laboratory employees are expected to maintain a safe working environment and an injury-free workplace. Laboratory employees are responsible for their own safety, the safety of others and adhering to all departmental and medical center safety policies and procedures.   * For standard precautions and safety practices in the laboratory; see **Safety Practices**, specifically, but not limited to, equipment safety, proper body mechanics, sharps exposure and proper use of personal protective equipment (PPE). * For Universal Body Substance precautions, see **Universal Body Substance Precautions**, specifically, but not limited to, exposure to body fluids. * For proper hand-washing, see **Hand washing Policy**, specifically, not limited to, proper hand-washing. * For proper infection control, see **Infection Control**, specifically, but not limited to, proper use of gloves. * For proper handling of regular and infectious waste, see **Handling of Regular and Infectious Waste**, specifically, but not limited to, proper disposal of regular and biohazardous waste. * For proper cleaning of work area, see **Cleaning Work Areas**. * For proper handling of chemicals and reagents, see the Chemical Hygiene Plan.   For proper storage and disposal of chemical hazardous waste, see **Storage & Disposal of Chemical Hazardous Waste**. All laboratory employees are expected to maintain a safe working environment and an injury-free workplace. Laboratory employees are responsible for their own safety, the safety of others and adhering to all departmental and medical center safety policies and procedures. | |  |

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| Supplies Needed | To test the integrity of the reagents, a material with a known value must be tested. The following materials can be used:   * Previously tested patient sample to perform a comparison study * XN Check Controls |

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| Procedure | Follow the guidelines below whenever replacing a reagent to complete the verification testing of **ALL** reagents before using the XN analyzer for patient testing.  **DILUENTS: REQUIRE BACKGROUND CHECK ONLY**   1. CELLPACK DCL 2. CELLPACK DST (DST): Concentrated DCL. For use with the RU-20 ONLY. 3. CELLPACK DFL (DFL)   **LYSING REAGENTS: REQUIRE QC TESTING**   * **Perform 1 level of QC, AM shift will use L1, PM shift will use L2, and GY shift will use L3 to verify testing.** * **See section Reagent verification review below.**  1. SULFOLYSER (SLS) 2. Lysercell WNR 3. Lysercell WDF |
| Procedure, continued | **STAINING REAGENTS: REQUIRE QC TESTING**   * **Perform 1 level of QC, AM shift will use L1, PM shift will use L2, and GY shift will use L3 to verify testing. Enter QC comment ‘reagent verification’** * **See section Reagent verification review below.**  1. Fluorocell WNR 2. Fluorocell WDF 3. Fluorocell RET 4. Fluorocell PLT   **CLEANING REAGENTS: NO ACTION REQUIRED**   1. CELLCLEAN AUTO   **NOTE:** Print the **background check or QC** (whichever applies), then write the reagent and lot # information and file in the appropriate tab in the Hematology reagent binder. |

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| Reagent verification review | |  |  | | --- | --- | | Steps | Action | |  | Perform QC or Background check necessary after reagent replacement | |  | Under the Explorer window of the the XN instrument, select and open QC or Background check file performed. | |  | If results are acceptable then click ‘Validate’ button. Troubleshoot if results failed. | |  | Print results by clicking ‘Output’ and selecting ‘Report(GP)’, Background checks will auto print once validated. | |  | Stamp the result print out to confirm verification of QC. Fill out necessary info | |  | File result print out in the **Reagent verification Log book.** | |

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| Reference | 1. Sysmex XN-9100 *Instructions for Use* (North American Edition), Sysmex Corporation, Kobe, Japan. 2. Sysmex XN series *Administrator’s Guide* (North American Edition), Sysmex Corporation, Kobe, Japan 3. Sysmex SP-50 *Instructions for Use* (North American Edition), Sysmex Corporation, Kobe, Japan. 4. Sysmex Reagents of America, Inc. MSDS sheets and reagent product inserts. 5. College of American Pathologists (CAP) Hematology-Coagulation Checklist, July 2012. |