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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
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| 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 |

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| 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.
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