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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 Log 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 handwashing, see **Hand washing Policy**, specifically, not limited to, proper handwashing. * 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 |

**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

**LYSING REAGENTS:** REQUIRE QC TESTING OR PATIENT CORRELATION

1. SULFOLYSER (SLS)
2. LYSERCELL WDF

**STAINING REAGENTS:** REQUIRE QC TESTING OR PATIENT CORRELATION

1. FLUOROCELL WDF

**CLEANING REAGENTS:** NO ACTION REQUIRED

1. CLEANCELL AUTO

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| References | The following documents support this procedure. | |
| **Reference** |
| 1. Sysmex XN-L Series XN-550/XN-450/XN-350 Basic Operation (North American Edition), Sysmex Corporation, Kobe, Japan. |
| 1. Sysmex XN-L Series XN-550/XN-450/XN-350 General Information (North American Edition), Sysmex Corporation, Kobe, Japan. |
| 1. Sysmex XN-L Series XN-550/XN-450/XN-350 Troubleshooting (North American Edition), Sysmex Corporation, Kobe, Japan. |
| 1. Sysmex Reagents of America Inc., Mundelein, IL. XN CAL, Hematology Calibrators: Calibrators for Sysmex Hematology XN-L Series Analyzers, package insert. |
| 1. Sysmex America Inc., Lincolnshire, IL. XN-L CHECK Hematology Control for Sysmex XN-L Series Analyzers package insert. |
| 1. Sysmex Reagents of America, Inc. SDS sheets and reagent product inserts. |
| 1. College of American Pathologists (CAP) Hematology-Coagulation Checklist, July 2012. |

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| Controlled Documents | The following controlled documents support this procedure.   |  |  | | --- | --- | | **Document Number** | **Document Name** | | LAMC-PPP-0123 | Safety Practices | | LAMC-PPP-0127 | Infection Control | | LAMC-PPP-0128 | Universal Body Substance Precaution | | LAMC-PPP-0129 | Handling of Regular and Infectious Waste | | LAMC-PPP-0130 | Cleaning Work Areas | | LAMC-PPP-0132 | Hand-washing Policy | | LAMC-PPP-0134 | Storage and Disposal of Chemical Hazardous Waste | |  |  | |  |  | |

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