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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
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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

**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.

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| **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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| **Author(s)** | Yvette Lingat, CLS |
| **Updated by** | Alvin Castillo, CLS |