#### Calibration and Calibration Verification of the Sysmex XN-3100 Hematology Analyzer

|  |  |
| --- | --- |
| **Background** | This procedure outlines the calibration / calibration verification process for the Sysmex XN-3100 |

|  |  |
| --- | --- |
| **Policy** | * Instrument calibration or calibration verification * At least every six (6) months. * Following major maintenance, service and/or replacement of critical parts * Controls show an unusual trend or are outside of acceptable limits and cannot be corrected by maintenance or troubleshooting * When calibration verification fails * When advised by Sysmex Technical Service * Calibration is performed initially and verified by the Sysmex Field Service Representative or CLS with remote assistance from Sysmex Technical Support |

|  |  |
| --- | --- |
| **Supplies** | * XN CAL: Used for calibration of the analyzer for: * WBC, RBC, HGB, HCT, PLT, AND RET * XN CAL PF: Used for calibration or the analyzer for: * PLT-F * Calibrators are stable until the manufacturer's expiration date. Store at 2-8oC. ***Open calibrator stability is 4*** ***hours.*** |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Procedure** | Follow the steps below to perform calibration or calibration verification.   |  |  | | --- | --- | | Step | Action | | 1 | Allow calibration materials to warm to room temperature for at least 15 minutes prior to use | | 2 | Verify adequate reagents are on board analyzer.   * If a reagent runs out during the calibration process, the calibration stops. If this occurs: * Cancel the calibration * Replace the needed reagent * Restart calibration from the beginning | | 3 | Perform calibration according to instructions of the Sysmex XN 3100 Instructions for Use manual | | 4 | Following calibration, run QC using the three XN CHECK control levels. Refer to *Running and Evaluating QC on the Sysmex-3100 Hematology Analyzer*. | |

Continued on next page

Calibration and Calibration Verification of the Sysmex XN-3100 Hematology Analyzer, Continued

|  |  |
| --- | --- |
| Related documents | * Running and Evaluating controls on the Sysmex XN 3100 Hematology analyzer |

|  |  |
| --- | --- |
| References | Sysmex XN 3100 Operator’s manual, March 2017  Sysmex XN-Series Automated Hematology Systems, Flagging Interpretation Guide, March 2018 |

*End*