



XN CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XN-SERIES (XN-10, XN-20) ANALYZERS

| Expiration Date: | 2020-09-13 | | Quality Control Data Due Date #1: 03-Aug-20 | | Quality Control Data Due Date #2: 13-Sep-20 | |
|------------------------------|------------|-----------------|--|-----------------|--|-----------------|
| Lot Number: | 01781101 | | 01781102 | | 01781103 | |
| Control: | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE |
| RBC (10 ⁶ /μL) | 2.29 | 2.18 - 2.41 | 4.29 | 4.12 - 4.46 | 5.05 | 4.84 - 5.25 |
| HGB (g/dL) | 5.7 | 5.4 - 6.0 | 11.7 | 11.2 - 12.1 | 15.3 | 14.7 - 15.9 |
| HCT (%) | 17.1 | 15.9 - 18.3 | 34.0 | 31.9 - 36.0 | 43.4 | 40.8 - 46.0 |
| MCV (fL) | 74.7 | 70.2 - 79.2 | 79.2 | 74.4 - 83.9 | 86.0 | 80.9 - 91.2 |
| MCH (pg) | 25.0 | 23.0 - 27.0 | 27.2 | 25.3 - 29.1 | 30.3 | 28.5 - 32.2 |
| MCHC (g/dL) | 33.4 | 30.1 - 36.8 | 34.4 | 31.3 - 37.5 | 35.2 | 32.4 - 38.1 |
| RDW-SD (fL) | 50.2 | 47.2 - 53.2 | 49.5 | 46.6 - 52.5 | 46.9 | 43.1 - 50.6 |
| RDW-CV (%) | 18.9 | 17.8 - 20.0 | 17.5 | 16.4 - 18.5 | 15.2 | 14.0 - 16.4 |
| PLT (10 ³ /μL) | 94 | 58 - 130 | 249 | 222 - 276 | 544 | 495 - 593 |
| PLT-F (10 ³ /μL) | 84 | 61 - 107 | 255 | 186 - 323 | 515 | 397 - 634 |
| IPF (%) | 18.9 | 16.4 - 21.3 | 20.4 | 16.3 - 24.4 | 19.7 | 15.6 - 23.9 |
| IPF# | 15.9 | 13.8 - 18.0 | 49.4 | 39.5 - 59.2 | 99.1 | 78.3 - 119.9 |
| MPV (fL) | 8.7 | 7.3 - 10.1 | 9.9 | 9.2 - 10.6 | 9.7 | 9.2 - 10.2 |
| WBC (10 ³ /μL) | 2.93 | 2.63 - 3.22 | 6.51 | 6.06 - 6.97 | 15.27 | 14.36 - 16.19 |
| NEUT# (10 ³ /μL) | 1.13 | 0.93 - 1.34 | 2.86 | 2.46 - 3.26 | 7.30 | 6.35 - 8.25 |
| LYMPH# (10 ³ /μL) | 1.04 | 0.76 - 1.32 | 1.90 | 1.45 - 2.36 | 3.80 | 2.81 - 4.78 |
| MONO# (10 ³ /μL) | 0.41 | 0.18 - 0.64 | 0.90 | 0.45 - 1.35 | 2.07 | 1.14 - 3.00 |
| EO# (10 ³ /μL) | 0.28 | 0.17 - 0.38 | 0.71 | 0.45 - 0.97 | 1.71 | 1.06 - 2.35 |
| BASO# (10 ³ /μL) | 0.14 | 0.11 - 0.18 | 0.32 | 0.27 - 0.37 | 0.76 | 0.66 - 0.86 |
| IG # (10 ³ /μL) | 0.29 | 0.23 - 0.35 | 0.72 | 0.59 - 0.86 | 1.84 | 1.51 - 2.17 |
| NRBC# (10 ³ /μL) | 0.14 | 0.08 - 0.19 | 0.42 | 0.31 - 0.54 | 1.06 | 0.85 - 1.27 |
| NEUT% | 37.7 | 32.5 - 43.0 | 42.7 | 38.0 - 47.4 | 46.7 | 42.1 - 51.4 |
| LYMPH% | 34.6 | 25.9 - 43.2 | 28.4 | 22.2 - 34.7 | 24.3 | 18.2 - 30.4 |
| MONO% | 13.6 | 6.3 - 21.0 | 13.5 | 7.0 - 19.9 | 13.2 | 7.4 - 19.0 |
| EO% | 9.2 | 5.8 - 12.7 | 10.6 | 6.8 - 14.4 | 10.9 | 6.9 - 15.0 |
| BASO% | 4.8 | 3.9 - 5.7 | 4.8 | 4.2 - 5.4 | 4.8 | 4.3 - 5.4 |
| IG (%) | 9.7 | 7.8 - 11.5 | 10.8 | 9.0 - 12.7 | 11.8 | 9.9 - 13.7 |
| NRBC% (/100 WBC) | 4.6 | 2.5 - 6.8 | 6.5 | 4.7 - 8.3 | 7.0 | 5.6 - 8.3 |
| RET% | 5.55 | 4.49 - 6.60 | 2.42 | 1.91 - 2.93 | 1.18 | 0.74 - 1.62 |
| RET# (10 ⁶ /μL) | 0.1272 | 0.0992 - 0.1552 | 0.1039 | 0.0842 - 0.1236 | 0.0596 | 0.0417 - 0.0775 |
| IRF (%) | 39.1 | 1.6 - 76.5 | 41.6 | 4.2 - 79.1 | 33.4 | 4.7 - 62.2 |
| RET-He (pg) | 25.0 | 21.5 - 28.5 | 25.9 | 22.5 - 29.2 | 27.8 | 23.6 - 31.9 |



XN CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

| Expiration Date: | 2020-09-13 | | Quality Control Data Due Date #1: 03-Aug-20 | | Quality Control Data Due Date #2: 13-Sep-20 | |
|------------------------------|------------|-----------------|--|-----------------|--|-----------------|
| Lot Number: | 01781101 | | 01781102 | | 01781103 | |
| Control: | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE |
| RBC (10 ⁶ /μL) | 2.31 | 2.19 - 2.42 | 4.32 | 4.15 - 4.50 | 5.10 | 4.89 - 5.30 |
| HGB (g/dL) | 5.8 | 5.5 - 6.0 | 11.8 | 11.3 - 12.2 | 15.4 | 14.8 - 16.0 |
| HCT (%) | 17.2 | 16.0 - 18.4 | 34.0 | 31.9 - 36.0 | 43.6 | 41.0 - 46.2 |
| MCV (fL) | 74.4 | 70.0 - 78.9 | 78.6 | 73.9 - 83.3 | 85.5 | 80.4 - 90.7 |
| MCH (pg) | 25.0 | 23.0 - 27.0 | 27.2 | 25.3 - 29.1 | 30.2 | 28.4 - 32.0 |
| MCHC (g/dL) | 33.6 | 30.2 - 36.9 | 34.6 | 31.5 - 37.7 | 35.3 | 32.5 - 38.2 |
| RDW-SD (fL) | 50.3 | 47.3 - 53.3 | 48.9 | 45.9 - 51.8 | 46.0 | 42.3 - 49.7 |
| RDW-CV (%) | 19.0 | 17.9 - 20.2 | 17.5 | 16.4 - 18.5 | 14.9 | 13.7 - 16.1 |
| PLT (10 ³ /μL) | 97 | 60 - 134 | 252 | 225 - 280 | 549 | 500 - 599 |
| MPV (fL) | 8.6 | 7.2 - 10.0 | 9.7 | 9.0 - 10.4 | 9.5 | 9.1 - 10.0 |
| WBC (10 ³ /μL) | 3.17 | 2.85 - 3.49 | 7.27 | 6.76 - 7.78 | 17.01 | 15.99 - 18.03 |
| NEUT# (10 ³ /μL) | 1.14 | 0.93 - 1.34 | 2.86 | 2.46 - 3.26 | 7.20 | 6.27 - 8.14 |
| LYMPH# (10 ³ /μL) | 1.17 | 0.85 - 1.49 | 2.21 | 1.68 - 2.74 | 4.47 | 3.31 - 5.63 |
| MONO# (10 ³ /μL) | 0.32 | 0.14 - 0.50 | 0.73 | 0.36 - 1.09 | 1.74 | 0.96 - 2.52 |
| EO# (10 ³ /μL) | 0.28 | 0.17 - 0.38 | 0.72 | 0.45 - 0.98 | 1.72 | 1.07 - 2.37 |
| BASO# (10 ³ /μL) | 0.15 | 0.12 - 0.19 | 0.39 | 0.33 - 0.45 | 0.99 | 0.86 - 1.12 |
| IG # (10 ³ /μL) | 0.30 | 0.24 - 0.36 | 0.74 | 0.60 - 0.89 | 1.87 | 1.53 - 2.21 |
| NEUT% | 37.2 | 32.0 - 42.4 | 41.5 | 36.9 - 46.0 | 44.7 | 40.2 - 49.1 |
| LYMPH% | 38.3 | 28.7 - 47.8 | 32.0 | 25.0 - 39.0 | 27.7 | 20.8 - 34.7 |
| MONO% | 10.5 | 4.8 - 16.1 | 10.5 | 5.5 - 15.6 | 10.8 | 6.0 - 15.5 |
| EO% | 9.1 | 5.7 - 12.4 | 10.4 | 6.6 - 14.1 | 10.7 | 6.7 - 14.6 |
| BASO% | 5.0 | 4.1 - 6.0 | 5.6 | 4.9 - 6.4 | 6.1 | 5.4 - 6.9 |
| IG (%) | 9.8 | 7.9 - 11.6 | 10.8 | 9.0 - 12.6 | 11.6 | 9.7 - 13.5 |
| RET% | 6.52 | 5.28 - 7.75 | 2.71 | 2.14 - 3.28 | 1.16 | 0.73 - 1.59 |
| RET# (10 ⁶ /μL) | 0.1503 | 0.1172 - 0.1834 | 0.1172 | 0.0950 - 0.1395 | 0.0592 | 0.0414 - 0.0769 |
| IRF (%) | 30.7 | 1.2 - 60.2 | 33.3 | 3.3 - 63.3 | 28.9 | 4.0 - 53.7 |
| RET-He (pg) | 22.2 | 19.1 - 25.3 | 22.8 | 19.8 - 25.7 | 24.1 | 20.5 - 27.8 |



XN CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XN-SERIES (XN-11, XN-21) ANALYZERS

| Expiration Date: | 2020-09-13 | | Quality Control Data Due Date #1: 03-Aug-20 | | Quality Control Data Due Date #2: 13-Sep-20 | |
|------------------------------|-------------------|-----------------|--|-----------------|--|-----------------|
| Lot Number: | 01781101 | | 01781102 | | 01781103 | |
| Control: | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE |
| RBC (10 ⁹ /μL) | 2.34 | 2.22 - 2.46 | 4.36 | 4.18 - 4.53 | 5.12 | 4.92 - 5.33 |
| HGB (g/dL) | 5.72 | 5.43 - 6.00 | 11.79 | 11.32 - 12.27 | 15.48 | 14.86 - 16.09 |
| HCT (%) | 16.9 | 15.7 - 18.1 | 33.3 | 31.3 - 35.3 | 42.7 | 40.2 - 45.3 |
| MCV (fL) | 72.3 | 68.0 - 76.6 | 76.5 | 71.9 - 81.0 | 83.4 | 78.4 - 88.4 |
| MCH (pg) | 24.4 | 22.5 - 26.4 | 27.1 | 25.2 - 28.9 | 30.2 | 28.4 - 32.0 |
| MCHC (g/dL) | 33.8 | 30.4 - 37.2 | 35.4 | 32.2 - 38.6 | 36.2 | 33.3 - 39.1 |
| RDW-SD (fL) | 48.3 | 45.4 - 51.2 | 48.7 | 45.7 - 51.6 | 47.3 | 43.5 - 51.0 |
| RDW-CV (%) | 19.0 | 17.9 - 20.2 | 18.1 | 17.0 - 19.2 | 16.1 | 14.8 - 17.4 |
| PLT (10 ³ /μL) | 96 | 60 - 133 | 252 | 224 - 280 | 544 | 495 - 593 |
| PLT-F (10 ³ /μL) | 85 | 62 - 108 | 253 | 185 - 321 | 516 | 397 - 635 |
| IPF (%) | 19.1 | 16.6 - 21.5 | 19.7 | 15.8 - 23.7 | 19.9 | 15.7 - 24.1 |
| IPF# | 16.1 | 14.0 - 18.2 | 47.5 | 38.0 - 57.1 | 100.1 | 79.1 - 121.2 |
| MPV (fL) | 9.8 | 8.2 - 11.4 | 11.0 | 10.3 - 11.8 | 10.8 | 10.3 - 11.4 |
| WBC (10 ³ /μL) | 2.93 | 2.64 - 3.23 | 6.52 | 6.06 - 6.98 | 15.22 | 14.31 - 16.13 |
| NEUT# (10 ³ /μL) | 1.15 | 0.94 - 1.36 | 2.88 | 2.48 - 3.29 | 7.33 | 6.37 - 8.28 |
| LYMPH# (10 ³ /μL) | 1.04 | 0.76 - 1.33 | 1.94 | 1.48 - 2.41 | 3.86 | 2.85 - 4.86 |
| MONO# (10 ³ /μL) | 0.41 | 0.18 - 0.64 | 0.88 | 0.44 - 1.31 | 2.05 | 1.13 - 2.97 |
| EO# (10 ³ /μL) | 0.27 | 0.17 - 0.38 | 0.70 | 0.44 - 0.96 | 1.71 | 1.06 - 2.36 |
| BASO# (10 ³ /μL) | 0.14 | 0.11 - 0.18 | 0.33 | 0.27 - 0.38 | 0.76 | 0.66 - 0.86 |
| IG # (10 ³ /μL) | 0.29 | 0.23 - 0.36 | 0.73 | 0.59 - 0.87 | 1.84 | 1.51 - 2.17 |
| NRBC# (10 ³ /μL) | 0.13 | 0.08 - 0.19 | 0.43 | 0.31 - 0.54 | 1.07 | 0.86 - 1.29 |
| NEUT% | 38.1 | 32.7 - 43.4 | 42.9 | 38.1 - 47.6 | 46.7 | 42.0 - 51.3 |
| LYMPH% | 34.5 | 25.9 - 43.2 | 28.9 | 22.5 - 35.2 | 24.6 | 18.4 - 30.7 |
| MONO% | 13.5 | 6.2 - 20.8 | 13.0 | 6.8 - 19.3 | 13.1 | 7.3 - 18.8 |
| EO% | 9.1 | 5.7 - 12.4 | 10.4 | 6.7 - 14.2 | 10.9 | 6.9 - 15.0 |
| BASO% | 4.8 | 3.9 - 5.7 | 4.8 | 4.2 - 5.5 | 4.8 | 4.2 - 5.4 |
| IG (%) | 9.8 | 7.9 - 11.6 | 10.9 | 9.0 - 12.7 | 11.7 | 9.8 - 13.6 |
| NRBC% (/100 WBC) | 4.6 | 2.5 - 6.7 | 6.5 | 4.7 - 8.4 | 7.0 | 5.7 - 8.4 |
| RET% | 4.82 | 3.91 - 5.74 | 2.13 | 1.68 - 2.57 | 1.07 | 0.67 - 1.47 |
| RET# (10 ⁶ /μL) | 0.1129 | 0.0880 - 0.1377 | 0.0927 | 0.0751 - 0.1103 | 0.0548 | 0.0384 - 0.0713 |
| IRF (%) | 44.1 | 1.8 - 86.4 | 43.7 | 4.4 - 83.1 | 34.1 | 4.8 - 63.5 |
| RET-He (pg) | 23.9 | 20.6 - 27.3 | 24.9 | 21.6 - 28.1 | 27.1 | 23.0 - 31.1 |