



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: | 01761101 | | 01761102 | | 01761103 | |
| 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 | 4.21 | 4.04 - 4.38 | 4.99 | 4.79 - 5.19 |
| HGB (g/dL) | 5.7 | 5.4 - 6.0 | 11.3 | 10.9 - 11.8 | 15.0 | 14.4 - 15.6 |
| HCT (%) | 16.8 | 15.6 - 18.0 | 33.1 | 31.1 - 35.0 | 42.5 | 39.9 - 45.0 |
| MCV (fL) | 73.3 | 68.9 - 77.7 | 78.6 | 73.9 - 83.3 | 85.1 | 80.0 - 90.2 |
| MCH (pg) | 24.9 | 22.9 - 26.9 | 26.9 | 25.0 - 28.8 | 30.0 | 28.2 - 31.8 |
| MCHC (g/dL) | 33.9 | 30.5 - 37.3 | 34.2 | 31.1 - 37.3 | 35.2 | 32.4 - 38.1 |
| RDW-SD (fL) | 47.9 | 45.0 - 50.8 | 49.4 | 46.5 - 52.4 | 48.5 | 44.6 - 52.4 |
| RDW-CV (%) | 18.4 | 17.3 - 19.5 | 17.7 | 16.6 - 18.7 | 15.9 | 14.7 - 17.2 |
| PLT (10 ³ /μL) | 97 | 60 - 133 | 242 | 216 - 269 | 520 | 474 - 567 |
| PLT-F (10 ³ /μL) | 87 | 63 - 110 | 247 | 181 - 314 | 495 | 381 - 609 |
| IPF (%) | 18.9 | 16.5 - 21.4 | 20.2 | 16.1 - 24.2 | 20.2 | 15.9 - 24.4 |
| IPF# | 16.4 | 14.3 - 18.5 | 47.5 | 38.0 - 57.0 | 97.4 | 76.9 - 117.8 |
| MPV (fL) | 8.8 | 7.4 - 10.2 | 10.0 | 9.3 - 10.6 | 9.8 | 9.3 - 10.3 |
| WBC (10 ³ /μL) | 2.89 | 2.60 - 3.18 | 6.59 | 6.13 - 7.05 | 15.61 | 14.68 - 16.55 |
| NEUT# (10 ³ /μL) | 1.13 | 0.93 - 1.33 | 2.95 | 2.54 - 3.36 | 7.33 | 6.37 - 8.28 |
| LYMPH# (10 ³ /μL) | 0.99 | 0.72 - 1.26 | 1.91 | 1.46 - 2.37 | 3.90 | 2.89 - 4.92 |
| MONO# (10 ³ /μL) | 0.42 | 0.19 - 0.66 | 0.90 | 0.45 - 1.36 | 2.12 | 1.17 - 3.07 |
| EO# (10 ³ /μL) | 0.27 | 0.16 - 0.37 | 0.70 | 0.44 - 0.95 | 1.80 | 1.12 - 2.48 |
| BASO# (10 ³ /μL) | 0.14 | 0.10 - 0.17 | 0.33 | 0.27 - 0.38 | 0.76 | 0.66 - 0.86 |
| IG # (10 ³ /μL) | 0.29 | 0.23 - 0.35 | 0.75 | 0.61 - 0.89 | 1.86 | 1.52 - 2.19 |
| NRBC# (10 ³ /μL) | 0.14 | 0.08 - 0.20 | 0.42 | 0.31 - 0.53 | 0.98 | 0.78 - 1.17 |
| NEUT% | 38.3 | 32.9 - 43.7 | 43.4 | 38.7 - 48.2 | 46.1 | 41.5 - 50.7 |
| LYMPH% | 33.6 | 25.2 - 42.0 | 28.2 | 22.0 - 34.4 | 24.5 | 18.4 - 30.7 |
| MONO% | 14.3 | 6.6 - 22.0 | 13.3 | 6.9 - 19.7 | 13.3 | 7.5 - 19.2 |
| EO% | 9.0 | 5.7 - 12.4 | 10.3 | 6.6 - 14.0 | 11.3 | 7.1 - 15.5 |
| BASO% | 4.7 | 3.8 - 5.6 | 4.8 | 4.2 - 5.4 | 4.8 | 4.2 - 5.4 |
| IG (%) | 9.8 | 8.0 - 11.7 | 11.0 | 9.1 - 12.9 | 11.7 | 9.8 - 13.5 |
| NRBC% (/100 WBC) | 4.7 | 2.6 - 6.9 | 6.3 | 4.6 - 8.1 | 6.3 | 5.1 - 7.5 |
| RET% | 5.57 | 4.51 - 6.63 | 2.38 | 1.88 - 2.88 | 1.13 | 0.71 - 1.54 |
| RET# (10 ⁶ /μL) | 0.1278 | 0.0997 - 0.1559 | 0.1001 | 0.0811 - 0.1192 | 0.0562 | 0.0393 - 0.0730 |
| IRF (%) | 31.3 | 1.3 - 61.3 | 35.2 | 3.5 - 67.0 | 27.5 | 3.8 - 51.1 |
| RET-He (pg) | 25.1 | 21.6 - 28.7 | 26.0 | 22.6 - 29.4 | 27.5 | 23.4 - 31.6 |



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: | 01761101 | | 01761102 | | 01761103 | |
| 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 | 4.24 | 4.07 - 4.40 | 5.05 | 4.85 - 5.25 |
| HGB (g/dL) | 5.7 | 5.4 - 6.0 | 11.4 | 10.9 - 11.8 | 15.1 | 14.5 - 15.7 |
| HCT (%) | 16.9 | 15.7 - 18.0 | 33.0 | 31.1 - 35.0 | 42.7 | 40.2 - 45.3 |
| MCV (fL) | 73.1 | 68.7 - 77.5 | 78.0 | 73.3 - 82.7 | 84.5 | 79.5 - 89.6 |
| MCH (pg) | 24.8 | 22.8 - 26.8 | 26.9 | 25.0 - 28.8 | 29.8 | 28.0 - 31.6 |
| MCHC (g/dL) | 33.9 | 30.5 - 37.3 | 34.5 | 31.4 - 37.6 | 35.3 | 32.4 - 38.1 |
| RDW-SD (fL) | 48.0 | 45.2 - 50.9 | 48.8 | 45.8 - 51.7 | 47.3 | 43.6 - 51.1 |
| RDW-CV (%) | 18.5 | 17.4 - 19.6 | 17.6 | 16.5 - 18.6 | 15.6 | 14.3 - 16.8 |
| PLT (10 ³ /μL) | 100 | 62 - 138 | 247 | 220 - 274 | 525 | 478 - 572 |
| MPV (fL) | 8.7 | 7.3 - 10.0 | 9.8 | 9.1 - 10.5 | 9.6 | 9.2 - 10.1 |
| WBC (10 ³ /μL) | 3.16 | 2.84 - 3.47 | 7.31 | 6.79 - 7.82 | 17.15 | 16.12 - 18.18 |
| NEUT# (10 ³ /μL) | 1.12 | 0.92 - 1.32 | 2.91 | 2.50 - 3.32 | 7.31 | 6.36 - 8.26 |
| LYMPH# (10 ³ /μL) | 1.17 | 0.85 - 1.48 | 2.22 | 1.69 - 2.76 | 4.60 | 3.40 - 5.79 |
| MONO# (10 ³ /μL) | 0.33 | 0.14 - 0.51 | 0.72 | 0.36 - 1.07 | 1.69 | 0.93 - 2.45 |
| EO# (10 ³ /μL) | 0.27 | 0.17 - 0.38 | 0.70 | 0.44 - 0.96 | 1.77 | 1.10 - 2.44 |
| BASO# (10 ³ /μL) | 0.15 | 0.11 - 0.19 | 0.40 | 0.34 - 0.46 | 0.98 | 0.85 - 1.11 |
| IG # (10 ³ /μL) | 0.29 | 0.23 - 0.35 | 0.76 | 0.61 - 0.90 | 1.90 | 1.56 - 2.24 |
| NEUT% | 36.8 | 31.7 - 42.0 | 41.9 | 37.3 - 46.5 | 44.7 | 40.2 - 49.2 |
| LYMPH% | 38.4 | 28.8 - 48.0 | 32.0 | 24.9 - 39.0 | 28.1 | 21.1 - 35.2 |
| MONO% | 10.8 | 5.0 - 16.6 | 10.3 | 5.3 - 15.2 | 10.4 | 5.8 - 14.9 |
| EO% | 9.0 | 5.7 - 12.3 | 10.1 | 6.5 - 13.8 | 10.8 | 6.8 - 14.8 |
| BASO% | 5.0 | 4.1 - 6.0 | 5.8 | 5.0 - 6.5 | 6.0 | 5.3 - 6.7 |
| IG (%) | 9.6 | 7.8 - 11.5 | 10.9 | 9.0 - 12.7 | 11.6 | 9.8 - 13.5 |
| RET% | 6.51 | 5.27 - 7.75 | 2.68 | 2.12 - 3.24 | 1.15 | 0.72 - 1.57 |
| RET# (10 ⁶ /μL) | 0.1501 | 0.1171 - 0.1832 | 0.1135 | 0.0920 - 0.1351 | 0.0580 | 0.0406 - 0.0753 |
| IRF (%) | 23.6 | 0.9 - 46.3 | 27.3 | 2.7 - 52.0 | 23.1 | 3.2 - 42.9 |
| RET-He (pg) | 22.3 | 19.2 - 25.4 | 23.0 | 20.0 - 26.0 | 23.9 | 20.3 - 27.5 |



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: | 01761101 | | 01761102 | | 01761103 | |
| 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 | 2.23 - 2.46 | 4.28 | 4.11 - 4.45 | 5.08 | 4.88 - 5.28 |
| HGB (g/dL) | 5.69 | 5.41 - 5.98 | 11.39 | 10.93 - 11.84 | 15.13 | 14.53 - 15.74 |
| HCT (%) | 16.7 | 15.6 - 17.9 | 32.4 | 30.5 - 34.4 | 41.9 | 39.4 - 44.4 |
| MCV (fL) | 71.4 | 67.1 - 75.7 | 75.8 | 71.3 - 80.4 | 82.5 | 77.5 - 87.4 |
| MCH (pg) | 24.3 | 22.4 - 26.2 | 26.6 | 24.8 - 28.5 | 29.8 | 28.0 - 31.6 |
| MCHC (g/dL) | 34.0 | 30.6 - 37.4 | 35.1 | 31.9 - 38.3 | 36.1 | 33.2 - 39.0 |
| RDW-SD (fL) | 46.6 | 43.8 - 49.4 | 48.0 | 45.1 - 50.9 | 47.9 | 44.1 - 51.8 |
| RDW-CV (%) | 18.4 | 17.3 - 19.5 | 18.0 | 16.9 - 19.1 | 16.5 | 15.1 - 17.8 |
| PLT (10 ³ /μL) | 99 | 61 - 136 | 245 | 218 - 272 | 521 | 474 - 568 |
| PLT-F (10 ³ /μL) | 87 | 64 - 111 | 246 | 179 - 312 | 496 | 382 - 611 |
| IPF (%) | 19.3 | 16.8 - 21.8 | 19.8 | 15.9 - 23.8 | 20.1 | 15.9 - 24.3 |
| IPF# | 16.8 | 14.6 - 19.0 | 46.4 | 37.1 - 55.7 | 97.2 | 76.8 - 117.6 |
| MPV (fL) | 9.8 | 8.3 - 11.4 | 11.1 | 10.3 - 11.9 | 10.9 | 10.4 - 11.5 |
| WBC (10 ³ /μL) | 2.90 | 2.61 - 3.19 | 6.61 | 6.15 - 7.07 | 15.56 | 14.63 - 16.50 |
| NEUT# (10 ³ /μL) | 1.13 | 0.93 - 1.33 | 2.96 | 2.54 - 3.37 | 7.33 | 6.38 - 8.29 |
| LYMPH# (10 ³ /μL) | 1.03 | 0.75 - 1.30 | 1.95 | 1.48 - 2.42 | 3.99 | 2.96 - 5.03 |
| MONO# (10 ³ /μL) | 0.41 | 0.18 - 0.64 | 0.89 | 0.45 - 1.34 | 2.09 | 1.15 - 3.03 |
| EO# (10 ³ /μL) | 0.27 | 0.17 - 0.38 | 0.68 | 0.43 - 0.93 | 1.78 | 1.10 - 2.46 |
| BASO# (10 ³ /μL) | 0.14 | 0.11 - 0.18 | 0.33 | 0.28 - 0.38 | 0.77 | 0.67 - 0.87 |
| IG # (10 ³ /μL) | 0.29 | 0.23 - 0.35 | 0.75 | 0.61 - 0.89 | 1.85 | 1.51 - 2.18 |
| NRBC# (10 ³ /μL) | 0.14 | 0.08 - 0.20 | 0.41 | 0.30 - 0.53 | 0.98 | 0.78 - 1.17 |
| NEUT% | 37.8 | 32.5 - 43.1 | 43.4 | 38.7 - 48.2 | 45.9 | 41.3 - 50.5 |
| LYMPH% | 34.4 | 25.8 - 43.0 | 28.7 | 22.4 - 35.0 | 25.0 | 18.8 - 31.3 |
| MONO% | 13.8 | 6.4 - 21.3 | 13.1 | 6.8 - 19.4 | 13.1 | 7.3 - 18.8 |
| EO% | 9.2 | 5.8 - 12.6 | 10.0 | 6.4 - 13.5 | 11.1 | 7.0 - 15.3 |
| BASO% | 4.8 | 3.9 - 5.7 | 4.8 | 4.2 - 5.4 | 4.8 | 4.3 - 5.4 |
| IG (%) | 9.8 | 7.9 - 11.6 | 11.0 | 9.2 - 12.9 | 11.6 | 9.7 - 13.4 |
| NRBC% (/100 WBC) | 4.8 | 2.6 - 6.9 | 6.3 | 4.5 - 8.0 | 6.3 | 5.1 - 7.5 |
| RET% | 4.92 | 3.99 - 5.86 | 2.14 | 1.69 - 2.59 | 1.03 | 0.65 - 1.40 |
| RET# (10 ⁶ /μL) | 0.1153 | 0.0899 - 0.1407 | 0.0917 | 0.0743 - 0.1091 | 0.0521 | 0.0364 - 0.0677 |
| IRF (%) | 34.8 | 1.4 - 68.2 | 37.3 | 3.7 - 70.9 | 28.3 | 4.0 - 52.7 |
| RET-He (pg) | 24.1 | 20.7 - 27.5 | 25.0 | 21.7 - 28.2 | 26.6 | 22.6 - 30.6 |