



# XN CHECK™

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

| Expiration Date:             | 2022-07-17 |                 | Quality Control<br>Data Due Date #1: 06-Jun-22 |                 | Quality Control<br>Data Due Date #2: 17-Jul-22 |                 |
|------------------------------|------------|-----------------|--|-----------------|--|-----------------|
| Lot Number:                  | 21191101   |                 | 21191102                                       |                 | 21191103                                       |                 |
| Control:                     | L1:Level 1 |                 | L2:Level 2                                     |                 | L3:Level 3                                     |                 |
| PARAMETERS                   | MEAN       | EXPECTED RANGE  | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE  |
| RBC (10 <sup>6</sup> /μL)    | 2.38       | 2.26 - 2.50     | 4.23   | 4.06 - 4.40     | 4.95   | 4.75 - 5.15     |
| HGB (g/dL)                   | 6.0        | 5.7 - 6.3       | 11.6   | 11.1 - 12.1     | 15.6   | 15.0 - 16.2     |
| HCT (%)                      | 17.7       | 16.5 - 19.0     | 33.6   | 31.6 - 35.6     | 43.6   | 41.0 - 46.2     |
| MCV (fL)                     | 74.6       | 70.1 - 79.0     | 79.4   | 74.7 - 84.2     | 88.1   | 82.8 - 93.3     |
| MCH (pg)                     | 25.4       | 23.4 - 27.4     | 27.4   | 25.5 - 29.3     | 31.5   | 29.6 - 33.3     |
| MCHC (g/dL)                  | 34.1       | 30.7 - 37.5     | 34.5   | 31.4 - 37.6     | 35.7   | 32.9 - 38.6     |
| RDW-SD (fL)                  | 55.8       | 52.5 - 59.2     | 47.4   | 44.5 - 50.2     | 50.1   | 46.1 - 54.1     |
| RDW-CV (%)                   | 20.8       | 19.6 - 22.1     | 16.7   | 15.7 - 17.7     | 15.8   | 14.5 - 17.0     |
| PLT (10 <sup>3</sup> /μL)    | 90         | 56 - 125        | 264  | 235 - 293       | 566  | 515 - 617       |
| PLT-F (10 <sup>3</sup> /μL)  | 85         | 62 - 107        | 272  | 199 - 346       | 543  | 418 - 668       |
| IPF (%)                      | 19.3       | 16.8 - 21.8     | 20.0   | 16.0 - 24.0     | 19.9   | 15.7 - 24.1     |
| IPF#                         | 16.3       | 14.2 - 18.4     | 51.8   | 41.4 - 62.1     | 105.6  | 83.4 - 127.8    |
| MPV (fL)                     | 8.0        | 6.7 - 9.3       | 9.8  | 9.1 - 10.5      | 9.7  | 9.2 - 10.2      |
| WBC (10 <sup>3</sup> /μL)    | 3.01       | 2.71 - 3.31     | 7.54   | 7.01 - 8.07     | 16.23  | 15.26 - 17.20   |
| NEUT# (10 <sup>3</sup> /μL)  | 1.24       | 1.01 - 1.46     | 3.24   | 2.79 - 3.70     | 7.75   | 6.74 - 8.76     |
| LYMPH# (10 <sup>3</sup> /μL) | 0.93       | 0.68 - 1.18     | 2.21   | 1.68 - 2.74     | 3.85   | 2.85 - 4.85     |
| MONO# (10 <sup>3</sup> /μL)  | 0.40       | 0.18 - 0.62     | 0.92   | 0.46 - 1.37     | 1.99   | 1.09 - 2.88     |
| EO# (10 <sup>3</sup> /μL)    | 0.30       | 0.18 - 0.41     | 0.81   | 0.51 - 1.11     | 1.86   | 1.15 - 2.56     |
| BASO# (10 <sup>3</sup> /μL)  | 0.14       | 0.11 - 0.18     | 0.36   | 0.30 - 0.42     | 0.79   | 0.69 - 0.89     |
| IG # (10 <sup>3</sup> /μL)   | 0.31       | 0.25 - 0.38     | 0.82   | 0.67 - 0.98     | 1.95   | 1.60 - 2.30     |
| NRBC# (10 <sup>3</sup> /μL)  | 0.17       | 0.10 - 0.24     | 0.41   | 0.30 - 0.52     | 1.02   | 0.81 - 1.22     |
| NEUT%                        | 41.1       | 35.4 - 46.9     | 43.0   | 38.3 - 47.7     | 47.7   | 43.0 - 52.5     |
| LYMPH%                       | 31.0       | 23.2 - 38.7     | 29.3   | 22.9 - 35.7     | 23.7   | 17.8 - 29.6     |
| MONO%                        | 13.3       | 6.1 - 20.4      | 12.2   | 6.3 - 18.0      | 12.3   | 6.9 - 17.7      |
| EO%                          | 9.9        | 6.2 - 13.5      | 10.8   | 6.9 - 14.6      | 11.4   | 7.2 - 15.7      |
| BASO%                        | 4.8        | 3.9 - 5.7       | 4.8  | 4.2 - 5.4       | 4.9  | 4.3 - 5.4       |
| IG (%)                       | 10.5       | 8.5 - 12.5      | 10.9   | 9.0 - 12.8      | 12.0   | 10.1 - 14.0     |
| NRBC% (/100 WBC)             | 5.7        | 3.1 - 8.3       | 5.5  | 3.9 - 7.0       | 6.3  | 5.1 - 7.4       |
| RET%                         | 6.06       | 4.91 - 7.21     | 2.45   | 1.93 - 2.96     | 1.32   | 0.83 - 1.80     |
| RET# (10 <sup>6</sup> /μL)   | 0.1441     | 0.1124 - 0.1758 | 0.1035   | 0.0839 - 0.1232 | 0.0651   | 0.0456 - 0.0846 |
| IRF (%)                      | 36.2       | 1.4 - 71.0      | 37.9   | 3.8 - 72.1      | 30.2   | 4.2 - 56.2      |
| RET-He (pg)                  | 24.3       | 20.9 - 27.7     | 25.3   | 22.0 - 28.6     | 27.2   | 23.1 - 31.3     |



# XN CHECK™

## HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

| Expiration Date:             | 2022-07-17 |                 | Quality Control<br>Data Due Date #1: 06-Jun-22 |                 | Quality Control<br>Data Due Date #2: 17-Jul-22 |                 |
|------------------------------|------------|-----------------|--|-----------------|--|-----------------|
| Lot Number:                  | 21191101   |                 | 21191102                                       |                 | 21191103                                       |                 |
| Control:                     | L1:Level 1 |                 | L2:Level 2                                     |                 | L3:Level 3                                     |                 |
| PARAMETERS                   | MEAN       | EXPECTED RANGE  | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE  |
| RBC (10 <sup>6</sup> /μL)    | 2.38       | 2.26 - 2.50     | 4.25   | 4.08 - 4.42     | 4.99   | 4.79 - 5.19     |
| HGB (g/dL)                   | 6.1        | 5.8 - 6.4       | 11.7   | 11.2 - 12.1     | 15.6   | 15.0 - 16.2     |
| HCT (%)                      | 17.8       | 16.5 - 19.0     | 33.6   | 31.6 - 35.7     | 43.9   | 41.2 - 46.5     |
| MCV (fL)                     | 74.7       | 70.2 - 79.2     | 79.2   | 74.4 - 83.9     | 87.9   | 82.6 - 93.2     |
| MCH (pg)                     | 25.6       | 23.6 - 27.7     | 27.4   | 25.5 - 29.4     | 31.3   | 29.4 - 33.1     |
| MCHC (g/dL)                  | 34.3       | 30.9 - 37.7     | 34.7   | 31.6 - 37.8     | 35.6   | 32.7 - 38.4     |
| RDW-SD (fL)                  | 57.2       | 53.7 - 60.6     | 47.1   | 44.3 - 50.0     | 49.2   | 45.3 - 53.2     |
| RDW-CV (%)                   | 21.0       | 19.7 - 22.2     | 16.5   | 15.5 - 17.4     | 15.4   | 14.2 - 16.7     |
| PLT (10 <sup>3</sup> /μL)    | 91         | 64 - 119        | 269  | 232 - 307       | 578  | 515 - 642       |
| MPV (fL)                     | 7.9        | 6.8 - 8.9       | 9.7  | 8.9 - 10.4      | 9.5  | 8.8 - 10.1      |
| WBC (10 <sup>3</sup> /μL)    | 3.28       | 2.85 - 3.70     | 8.31   | 7.48 - 9.15     | 17.93  | 16.49 - 19.36   |
| NEUT# (10 <sup>3</sup> /μL)  | 1.25       | 1.02 - 1.47     | 3.32   | 2.85 - 3.78     | 7.73   | 6.72 - 8.73     |
| LYMPH# (10 <sup>3</sup> /μL) | 1.06       | 0.77 - 1.34     | 2.49   | 1.89 - 3.09     | 4.41   | 3.26 - 5.56     |
| MONO# (10 <sup>3</sup> /μL)  | 0.34       | 0.15 - 0.53     | 0.87   | 0.43 - 1.30     | 1.89   | 1.04 - 2.74     |
| EO# (10 <sup>3</sup> /μL)    | 0.30       | 0.19 - 0.42     | 0.83   | 0.52 - 1.13     | 2.00   | 1.24 - 2.76     |
| BASO# (10 <sup>3</sup> /μL)  | 0.16       | 0.10 - 0.23     | 0.45   | 0.31 - 0.59     | 1.03   | 0.72 - 1.34     |
| IG # (10 <sup>3</sup> /μL)   | 0.33       | 0.25 - 0.41     | 0.87   | 0.69 - 1.04     | 2.00   | 1.62 - 2.38     |
| NEUT%                        | 40.1       | 34.5 - 45.7     | 41.7   | 37.1 - 46.3     | 45.3   | 40.8 - 49.8     |
| LYMPH%                       | 33.9       | 25.5 - 42.4     | 31.3   | 24.4 - 38.2     | 25.9   | 19.4 - 32.3     |
| MONO%                        | 11.0       | 5.1 - 16.9      | 10.9   | 5.7 - 16.1      | 11.1   | 6.2 - 16.0      |
| EO%                          | 9.7        | 6.1 - 13.3      | 10.4   | 6.6 - 14.1      | 11.7   | 7.4 - 16.0      |
| BASO%                        | 5.3        | 3.4 - 7.1       | 5.7  | 4.0 - 7.4       | 6.1  | 4.3 - 7.8       |
| IG (%)                       | 10.5       | 8.3 - 12.8      | 10.9   | 8.7 - 13.1      | 11.7   | 9.7 - 13.7      |
| RET%                         | 6.57       | 4.86 - 8.28     | 2.65   | 1.96 - 3.33     | 1.28   | 0.84 - 1.71     |
| RET# (10 <sup>6</sup> /μL)   | 0.1563     | 0.1141 - 0.1985 | 0.1125   | 0.0844 - 0.1406 | 0.0637   | 0.0414 - 0.0860 |
| IRF (%)                      | 23.9       | 1.0 - 46.8      | 26.6   | 2.7 - 50.6      | 23.9   | 3.4 - 44.5      |
| RET-He (pg)                  | 23.4       | 20.1 - 26.7     | 23.9   | 20.8 - 27.1     | 25.2   | 21.4 - 29.0     |



# XN CHECK™

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

| Expiration Date:             | <b>2022-07-17</b> |                 | Quality Control<br>Data Due Date #1: 06-Jun-22 |                 | Quality Control<br>Data Due Date #2: 17-Jul-22 |                 |
|------------------------------|-------------------|-----------------|--|-----------------|--|-----------------|
| Lot Number:                  | 21191101          |                 | 21191102                                       |                 | 21191103                                       |                 |
| Control:                     | L1:Level 1        |                 | L2:Level 2                                     |                 | L3:Level 3                                     |                 |
| PARAMETERS                   | MEAN              | EXPECTED RANGE  | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE  |
| RBC (10 <sup>9</sup> /μL)    | 2.41              | 2.29 - 2.53     | 4.27   | 4.10 - 4.44     | 5.00   | 4.80 - 5.20     |
| HGB (g/dL)                   | 6.06              | 5.76 - 6.36     | 11.62  | 11.15 - 12.08   | 15.63  | 15.00 - 16.25   |
| HCT (%)                      | 17.5              | 16.3 - 18.8     | 32.7   | 30.7 - 34.6     | 42.8   | 40.3 - 45.4     |
| MCV (fL)                     | 72.8              | 68.4 - 77.1     | 76.5   | 71.9 - 81.1     | 85.7   | 80.5 - 90.8     |
| MCH (pg)                     | 25.1              | 23.1 - 27.2     | 27.2   | 25.3 - 29.1     | 31.3   | 29.4 - 33.1     |
| MCHC (g/dL)                  | 34.6              | 31.1 - 38.0     | 35.6   | 32.4 - 38.8     | 36.5   | 33.6 - 39.4     |
| RDW-SD (fL)                  | 54.5              | 51.2 - 57.7     | 45.3   | 42.6 - 48.0     | 49.4   | 45.5 - 53.4     |
| RDW-CV (%)                   | 20.9              | 19.6 - 22.1     | 16.8   | 15.8 - 17.8     | 16.3   | 15.0 - 17.6     |
| PLT (10 <sup>3</sup> /μL)    | 96                | 59 - 132        | 270  | 241 - 300       | 575  | 523 - 627       |
| PLT-F (10 <sup>3</sup> /μL)  | 86                | 63 - 109        | 275  | 201 - 349       | 547  | 422 - 673       |
| IPF (%)                      | 19.3              | 16.8 - 21.8     | 20.2   | 16.1 - 24.2     | 20.3   | 16.1 - 24.6     |
| IPF#                         | 16.6              | 14.4 - 18.7     | 52.8   | 42.2 - 63.4     | 108.6  | 85.8 - 131.4    |
| MPV (fL)                     | 8.8               | 7.4 - 10.2      | 10.9   | 10.1 - 11.7     | 10.7   | 10.2 - 11.2     |
| WBC (10 <sup>3</sup> /μL)    | 2.99              | 2.69 - 3.29     | 7.49   | 6.97 - 8.01     | 16.19  | 15.22 - 17.16   |
| NEUT# (10 <sup>3</sup> /μL)  | 1.22              | 1.00 - 1.44     | 3.20   | 2.76 - 3.65     | 7.71   | 6.71 - 8.71     |
| LYMPH# (10 <sup>3</sup> /μL) | 0.93              | 0.68 - 1.18     | 2.16   | 1.64 - 2.68     | 3.80   | 2.81 - 4.78     |
| MONO# (10 <sup>3</sup> /μL)  | 0.40              | 0.17 - 0.62     | 0.96   | 0.48 - 1.44     | 2.04   | 1.12 - 2.96     |
| EO# (10 <sup>3</sup> /μL)    | 0.30              | 0.19 - 0.41     | 0.81   | 0.51 - 1.10     | 1.86   | 1.15 - 2.56     |
| BASO# (10 <sup>3</sup> /μL)  | 0.14              | 0.11 - 0.18     | 0.36   | 0.30 - 0.42     | 0.78   | 0.68 - 0.89     |
| IG # (10 <sup>3</sup> /μL)   | 0.31              | 0.24 - 0.37     | 0.82   | 0.66 - 0.97     | 1.93   | 1.59 - 2.28     |
| NRBC# (10 <sup>3</sup> /μL)  | 0.17              | 0.10 - 0.24     | 0.41   | 0.30 - 0.52     | 1.00   | 0.80 - 1.20     |
| NEUT%                        | 40.7              | 35.0 - 46.4     | 42.8   | 38.1 - 47.5     | 47.6   | 42.9 - 52.4     |
| LYMPH%                       | 31.2              | 23.4 - 39.0     | 28.8   | 22.5 - 35.1     | 23.4   | 17.6 - 29.3     |
| MONO%                        | 13.3              | 6.1 - 20.4      | 12.9   | 6.7 - 19.0      | 12.6   | 7.1 - 18.2      |
| EO%                          | 10.0              | 6.3 - 13.8      | 10.8   | 6.9 - 14.6      | 11.5   | 7.2 - 15.7      |
| BASO%                        | 4.8               | 3.9 - 5.7       | 4.8  | 4.2 - 5.4       | 4.8  | 4.3 - 5.4       |
| IG (%)                       | 10.4              | 8.4 - 12.3      | 10.9   | 9.1 - 12.8      | 11.9   | 10.0 - 13.8     |
| NRBC% (/100 WBC)             | 5.6               | 3.0 - 8.2       | 5.5  | 4.0 - 7.0       | 6.2  | 5.0 - 7.4       |
| RET%                         | 5.50              | 4.45 - 6.54     | 2.25   | 1.77 - 2.72     | 1.23   | 0.77 - 1.68     |
| RET# (10 <sup>6</sup> /μL)   | 0.1325            | 0.1034 - 0.1617 | 0.0959   | 0.0777 - 0.1141 | 0.0613   | 0.0429 - 0.0796 |
| IRF (%)                      | 37.7              | 1.5 - 74.0      | 40.0   | 4.0 - 76.1      | 31.2   | 4.4 - 58.1      |
| RET-He (pg)                  | 24.1              | 20.8 - 27.5     | 25.2   | 21.9 - 28.5     | 27.1   | 23.1 - 31.2     |