



# e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XE-5000™ and XE-2100™ ANALYZERS  
OPEN MODE ASSAY

| Expiration Date:            |        | 2020-06-08      |        | Quality Control Data Due Date #1: 27-Apr-20 |        | Quality Control Data Due Date #2: 08-Jun-20 |  |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number:                 |        | 00790810        |        | 00790811                                    |        | 00790812                                    |  |
| Control:                    |        | L1:Level 1      |        | L2:Level 2                                  |        | L3:Level 3                                  |  |
| PARAMETERS                  | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE                              | MEAN   | EXPECTED RANGE                              |  |
| RBC (10 <sup>12</sup> /L)   | 2.31   | 2.22 - 2.40     | 4.39   | 4.26 - 4.52                                 | 5.28   | 5.12 - 5.44                                 |  |
| HGB (g/dL)                  | 5.7    | 5.5 - 5.9       | 12.4   | 12.0 - 12.7                                 | 16.5   | 16.0 - 17.0                                 |  |
| HCT (%)                     | 17.4   | 16.4 - 18.4     | 36.3   | 34.5 - 38.1                                 | 47.3   | 44.9 - 49.7                                 |  |
| MCV (fL)                    | 75.3   | 70.8 - 79.8     | 82.7   | 77.7 - 87.7                                 | 89.6   | 85.1 - 94.1                                 |  |
| MCH (pg)                    | 24.7   | 23.5 - 25.9     | 28.2   | 27.1 - 29.3                                 | 31.3   | 30.0 - 32.6                                 |  |
| MCHC (g/dL)                 | 32.8   | 30.2 - 35.4     | 34.0   | 31.6 - 36.4                                 | 34.9   | 32.5 - 37.3                                 |  |
| PLT (10 <sup>9</sup> /L)    | 60     | 46 - 74         | 234    | 211 - 257                                   | 557    | 512 - 602                                   |  |
| RDW-SD (fL)                 | 46.4   | 42.2 - 50.6     | 43.7   | 39.8 - 47.6                                 | 44.6   | 40.6 - 48.6                                 |  |
| RDW-CV (%)                  | 16.9   | 15.5 - 18.3     | 14.7   | 13.8 - 15.6                                 | 13.9   | 13.1 - 14.7                                 |  |
| MPV (fL)                    | 9.3    | 8.1 - 10.5      | 9.4    | 8.6 - 10.2                                  | 9.6    | 8.9 - 10.3                                  |  |
| WBC (10 <sup>9</sup> /L)    | 3.07   | 2.70 - 3.44     | 6.96   | 6.33 - 7.59                                 | 17.48  | 16.08 - 18.88                               |  |
| WBC-D (10 <sup>9</sup> /L)  | 2.86   | 2.52 - 3.20     | 6.38   | 5.81 - 6.95                                 | 16.24  | 14.78 - 17.70                               |  |
| NEUT%                       | 42.5   | 36.6 - 48.5     | 46.2   | 41.6 - 50.8                                 | 50.2   | 45.2 - 55.2                                 |  |
| LYMPH%                      | 39.1   | 32.1 - 46.1     | 34.5   | 29.3 - 39.7                                 | 29.7   | 25.2 - 34.2                                 |  |
| MONO%                       | 9.1    | 4.2 - 14.0      | 9.3    | 5.7 - 12.9                                  | 9.1    | 5.6 - 12.6                                  |  |
| EO%                         | 8.9    | 5.5 - 12.3      | 9.7    | 6.1 - 13.3                                  | 10.8   | 6.9 - 14.7                                  |  |
| BASO%                       | 59.8   | 53.2 - 66.4     | 64.6   | 60.1 - 69.1                                 | 69.0   | 66.2 - 71.8                                 |  |
| NEUT# (10 <sup>9</sup> /L)  | 1.31   | 1.05 - 1.57     | 3.21   | 2.73 - 3.69                                 | 8.77   | 7.63 - 9.91                                 |  |
| LYMPH# (10 <sup>9</sup> /L) | 1.20   | 0.92 - 1.48     | 2.40   | 1.94 - 2.86                                 | 5.19   | 4.31 - 6.07                                 |  |
| MONO# (10 <sup>9</sup> /L)  | 0.28   | 0.12 - 0.44     | 0.65   | 0.38 - 0.92                                 | 1.60   | 0.96 - 2.24                                 |  |
| EO# (10 <sup>9</sup> /L)    | 0.27   | 0.16 - 0.38     | 0.68   | 0.41 - 0.95                                 | 1.89   | 1.19 - 2.59                                 |  |
| BASO# (10 <sup>9</sup> /L)  | 1.84   | 1.51 - 2.17     | 4.50   | 3.92 - 5.09                                 | 12.07  | 10.86 - 13.28                               |  |
| NRBC# (10 <sup>9</sup> /L)  | 0.16   | 0.07 - 0.25     | 0.42   | 0.28 - 0.56                                 | 1.03   | 0.80 - 1.26                                 |  |
| NRBC% (/100 WBC)            | 5.6    | 2.5 - 8.7       | 6.3    | 4.2 - 8.4                                   | 6.3    | 5.0 - 7.6                                   |  |
| PLT-O (10 <sup>9</sup> /L)  | 62     | 41 - 83         | 237    | 197 - 277                                   | 562    | 478 - 646                                   |  |
| RET# (10 <sup>12</sup> /L)  | 0.1359 | 0.0938 - 0.1780 | 0.1087 | 0.0761 - 0.1413                             | 0.0529 | 0.0381 - 0.0677                             |  |
| RET%                        | 5.88   | 4.23 - 7.53     | 2.48   | 1.81 - 3.15                                 | 1.00   | 0.65 - 1.35                                 |  |
| IRF (%)                     | 25.4   | 4.3 - 46.5      | 22.1   | 1.8 - 42.4                                  | 16.7   | 0.8 - 32.6                                  |  |
| IG (#)                      | 0.31   | 0.23 - 0.39     | 0.75   | 0.59 - 0.91                                 | 2.07   | 1.66 - 2.48                                 |  |
| IG (%)                      | 10.1   | 8.0 - 12.2      | 10.8   | 8.7 - 12.9                                  | 11.8   | 9.6 - 14.0                                  |  |
| HPC (#)                     | 0.011  | 0.008 - 0.014   | 0.029  | 0.022 - 0.036                               | 0.084  | 0.063 - 0.105                               |  |
| RET-He (pg)                 | 23.8   | 20.5 - 27.1     | 24.4   | 21.0 - 27.8                                 | 26.3   | 22.1 - 30.5                                 |  |
| IPF (%)                     | 21.3   | 17.3 - 25.3     | 21.5   | 17.4 - 25.6                                 | 21.8   | 17.7 - 25.9                                 |  |

\*Not all parameters are available on all analyzer models

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HEMATOLOGY CONTROL FOR SYSMEX XE-5000™ and XE-2100™ ANALYZERS  
CLOSED MODE ASSAY

| Expiration Date:            |        | 2020-06-08      |        | Quality Control Data Due Date #1: 27-Apr-20 |        | Quality Control Data Due Date #2: 08-Jun-20 |  |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number:                 |        | 00790810        |        | 00790811                                    |        | 00790812                                    |  |
| Control:                    |        | L1:Level 1      |        | L2:Level 2                                  |        | L3:Level 3                                  |  |
| PARAMETERS                  | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE                              | MEAN   | EXPECTED RANGE                              |  |
| RBC (10 <sup>12</sup> /L)   | 2.31   | 2.22 - 2.40     | 4.39   | 4.26 - 4.52                                 | 5.20   | 5.04 - 5.36                                 |  |
| HGB (g/dL)                  | 5.7    | 5.5 - 6.0       | 12.3   | 11.9 - 12.7                                 | 16.4   | 15.9 - 16.9                                 |  |
| HCT (%)                     | 17.4   | 16.4 - 18.4     | 36.3   | 34.5 - 38.1                                 | 47.3   | 44.9 - 49.7                                 |  |
| MCV (fL)                    | 75.3   | 70.8 - 79.8     | 82.7   | 77.7 - 87.7                                 | 91.0   | 86.5 - 95.6                                 |  |
| MCH (pg)                    | 24.8   | 23.6 - 26.0     | 28.0   | 26.9 - 29.1                                 | 31.5   | 30.2 - 32.8                                 |  |
| MCHC (g/dL)                 | 32.9   | 30.3 - 35.5     | 33.9   | 31.5 - 36.3                                 | 34.6   | 32.2 - 37.0                                 |  |
| PLT (10 <sup>9</sup> /L)    | 60     | 46 - 74         | 229    | 206 - 252                                   | 518    | 477 - 559                                   |  |
| RDW-SD (fL)                 | 46.4   | 42.2 - 50.6     | 43.7   | 39.8 - 47.6                                 | 44.6   | 40.6 - 48.6                                 |  |
| RDW-CV (%)                  | 16.9   | 15.5 - 18.3     | 14.7   | 13.8 - 15.6                                 | 13.9   | 13.1 - 14.7                                 |  |
| MPV (fL)                    | 9.3    | 8.1 - 10.5      | 9.4    | 8.6 - 10.2                                  | 9.6    | 8.9 - 10.3                                  |  |
| WBC (10 <sup>9</sup> /L)    | 2.98   | 2.62 - 3.34     | 6.54   | 5.95 - 7.13                                 | 16.96  | 15.60 - 18.32                               |  |
| WBC-D (10 <sup>9</sup> /L)  | 2.77   | 2.44 - 3.10     | 6.19   | 5.63 - 6.75                                 | 15.27  | 13.89 - 16.64                               |  |
| NEUT%                       | 43.0   | 37.0 - 49.0     | 46.2   | 41.6 - 50.8                                 | 49.8   | 44.8 - 54.8                                 |  |
| LYMPH%                      | 38.9   | 31.9 - 45.9     | 34.7   | 29.5 - 39.9                                 | 29.7   | 25.2 - 34.2                                 |  |
| MONO%                       | 9.4    | 4.3 - 14.5      | 9.2    | 5.6 - 12.8                                  | 9.4    | 5.7 - 13.1                                  |  |
| EO%                         | 8.7    | 5.4 - 12.0      | 9.9    | 6.2 - 13.6                                  | 11.1   | 7.1 - 15.1                                  |  |
| BASO%                       | 60.4   | 53.8 - 67.0     | 65.4   | 60.8 - 70.0                                 | 69.8   | 67.0 - 72.6                                 |  |
| NEUT# (10 <sup>9</sup> /L)  | 1.28   | 1.02 - 1.54     | 3.02   | 2.57 - 3.47                                 | 8.44   | 7.34 - 9.54                                 |  |
| LYMPH# (10 <sup>9</sup> /L) | 1.16   | 0.89 - 1.43     | 2.27   | 1.84 - 2.70                                 | 5.03   | 4.17 - 5.89                                 |  |
| MONO# (10 <sup>9</sup> /L)  | 0.28   | 0.12 - 0.44     | 0.60   | 0.35 - 0.85                                 | 1.60   | 0.96 - 2.24                                 |  |
| EO# (10 <sup>9</sup> /L)    | 0.26   | 0.16 - 0.36     | 0.65   | 0.40 - 0.90                                 | 1.89   | 1.19 - 2.59                                 |  |
| BASO# (10 <sup>9</sup> /L)  | 1.80   | 1.48 - 2.12     | 4.28   | 3.72 - 4.84                                 | 11.83  | 10.65 - 13.01                               |  |
| NRBC# (10 <sup>9</sup> /L)  | 0.15   | 0.07 - 0.23     | 0.40   | 0.27 - 0.53                                 | 1.02   | 0.80 - 1.24                                 |  |
| NRBC% (/100 WBC)            | 5.6    | 2.5 - 8.7       | 6.3    | 4.2 - 8.4                                   | 6.3    | 5.0 - 7.6                                   |  |
| PLT-O (10 <sup>9</sup> /L)  | 62     | 41 - 83         | 237    | 197 - 277                                   | 545    | 463 - 627                                   |  |
| RET# (10 <sup>12</sup> /L)  | 0.1359 | 0.0938 - 0.1780 | 0.1087 | 0.0761 - 0.1413                             | 0.0529 | 0.0381 - 0.0677                             |  |
| RET%                        | 5.88   | 4.23 - 7.53     | 2.48   | 1.81 - 3.15                                 | 1.00   | 0.65 - 1.35                                 |  |
| IRF (%)                     | 25.4   | 4.3 - 46.5      | 22.1   | 1.8 - 42.4                                  | 16.7   | 0.8 - 32.6                                  |  |
| IG (#)                      | 0.30   | 0.23 - 0.38     | 0.75   | 0.59 - 0.91                                 | 2.07   | 1.66 - 2.48                                 |  |
| IG (%)                      | 10.1   | 8.0 - 12.2      | 10.8   | 8.7 - 12.9                                  | 11.8   | 9.6 - 14.0                                  |  |
| HPC (#)                     | 0.011  | 0.008 - 0.014   | 0.029  | 0.022 - 0.036                               | 0.084  | 0.063 - 0.105                               |  |
| RET-He (pg)                 | 23.8   | 20.5 - 27.1     | 24.4   | 21.0 - 27.8                                 | 26.3   | 22.1 - 30.5                                 |  |
| IPF (%)                     | 21.3   | 17.3 - 25.3     | 21.5   | 17.4 - 25.6                                 | 21.8   | 17.7 - 25.9                                 |  |

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