



**e-CHECK™ (XE)**

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

| Expiration Date: <b>2019-07-08</b> |        | Quality Control Data Due Date #1: <b>27-May-19</b> |        |                 |        | Quality Control Data Due Date #2: <b>08-Jul-19</b> |      |                |  |
|------------------------------------|--------|--|--------|-----------------|--------|--|------|----------------|--|
| Lot Number:                        |        | 91080810   |        | 91080811        |        | 91080812   |      |                |  |
| Control:                           |        | L1:Level 1   |        | L2:Level 2      |        | L3:Level 3   |      |                |  |
| PARAMETERS                         | MEAN   | EXPECTED RANGE                                     | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE                                     | MEAN | EXPECTED RANGE |  |
| RBC (10 <sup>12</sup> /L)          | 2.30   | 2.21 - 2.39  | 4.33   | 4.20 - 4.46     | 5.24   | 5.08 - 5.40  |      |                |  |
| HGB (g/dL)                         | 5.6    | 5.4 - 5.9  | 11.8   | 11.5 - 12.2     | 16.3   | 15.8 - 16.8  |      |                |  |
| HCT (%)                            | 17.3   | 16.3 - 18.3  | 35.1   | 33.3 - 36.9     | 46.5   | 44.2 - 48.8  |      |                |  |
| MCV (fL)                           | 75.2   | 70.7 - 79.7  | 81.1   | 76.2 - 86.0     | 88.7   | 84.3 - 93.1  |      |                |  |
| MCH (pg)                           | 24.5   | 23.3 - 25.7  | 27.3   | 26.2 - 28.4     | 31.1   | 29.9 - 32.3  |      |                |  |
| MCHC (g/dL)                        | 32.6   | 30.0 - 35.2  | 33.7   | 31.3 - 36.1     | 35.0   | 32.6 - 37.5  |      |                |  |
| PLT (10 <sup>9</sup> /L)           | 59     | 45 - 73  | 230    | 207 - 253       | 542    | 499 - 585  |      |                |  |
| RDW-SD (fL)                        | 43.8   | 39.9 - 47.7  | 45.1   | 41.0 - 49.2     | 44.3   | 40.3 - 48.3  |      |                |  |
| RDW-CV (%)                         | 16.1   | 14.8 - 17.4  | 15.4   | 14.5 - 16.3     | 13.9   | 13.1 - 14.7  |      |                |  |
| MPV (fL)                           | 9.0    | 7.8 - 10.2   | 9.3    | 8.6 - 10.0      | 9.5    | 8.8 - 10.2   |      |                |  |
| WBC (10 <sup>9</sup> /L)           | 3.09   | 2.72 - 3.46  | 7.10   | 6.46 - 7.74     | 17.19  | 15.81 - 18.57                                      |      |                |  |
| WBC-D (10 <sup>9</sup> /L)         | 2.85   | 2.51 - 3.19  | 6.49   | 5.91 - 7.07     | 15.69  | 14.28 - 17.10                                      |      |                |  |
| NEUT%                              | 42.2   | 36.3 - 48.1  | 48.2   | 43.4 - 53.0     | 51.8   | 46.6 - 57.0  |      |                |  |
| LYMPH%                             | 39.0   | 32.0 - 46.0  | 33.3   | 28.3 - 38.3     | 29.1   | 24.7 - 33.5  |      |                |  |
| MONO%                              | 9.3    | 4.3 - 14.3   | 8.1    | 4.9 - 11.3      | 8.2    | 5.0 - 11.4   |      |                |  |
| EO%                                | 9.1    | 5.6 - 12.6   | 10.2   | 6.4 - 14.0      | 10.9   | 7.0 - 14.8   |      |                |  |
| BASO%                              | 60.4   | 53.8 - 67.0  | 65.5   | 60.9 - 70.1     | 69.5   | 66.7 - 72.3  |      |                |  |
| NEUT# (10 <sup>9</sup> /L)         | 1.30   | 1.04 - 1.56  | 3.43   | 2.92 - 3.94     | 8.90   | 7.74 - 10.06                                       |      |                |  |
| LYMPH# (10 <sup>9</sup> /L)        | 1.20   | 0.92 - 1.48  | 2.37   | 1.92 - 2.82     | 5.00   | 4.15 - 5.85  |      |                |  |
| MONO# (10 <sup>9</sup> /L)         | 0.29   | 0.13 - 0.45  | 0.57   | 0.33 - 0.81     | 1.41   | 0.85 - 1.97  |      |                |  |
| EO# (10 <sup>9</sup> /L)           | 0.28   | 0.17 - 0.39  | 0.72   | 0.44 - 1.00     | 1.87   | 1.18 - 2.56  |      |                |  |
| BASO# (10 <sup>9</sup> /L)         | 1.87   | 1.53 - 2.21  | 4.66   | 4.05 - 5.27     | 11.94  | 10.75 - 13.13                                      |      |                |  |
| NRBC# (10 <sup>9</sup> /L)         | 0.15   | 0.07 - 0.23  | 0.44   | 0.29 - 0.59     | 1.13   | 0.88 - 1.38  |      |                |  |
| NRBC% (/100 WBC)                   | 5.0    | 2.3 - 7.8  | 6.7    | 4.5 - 8.9       | 7.0    | 5.5 - 8.5  |      |                |  |
| PLT-O (10 <sup>9</sup> /L)         | 64     | 42 - 86  | 228    | 189 - 267       | 548    | 466 - 630  |      |                |  |
| RET# (10 <sup>12</sup> /L)         | 0.1352 | 0.0933 - 0.1771                                    | 0.1074 | 0.0752 - 0.1396 | 0.0519 | 0.0374 - 0.0664                                    |      |                |  |
| RET%                               | 5.89   | 4.24 - 7.54  | 2.48   | 1.81 - 3.15     | 0.99   | 0.64 - 1.34  |      |                |  |
| IRF (%)                            | 38.8   | 6.6 - 71.0   | 36.1   | 2.9 - 69.3      | 26.3   | 1.3 - 51.3   |      |                |  |
| IG #                               | 0.31   | 0.23 - 0.39  | 0.81   | 0.64 - 0.98     | 2.09   | 1.67 - 2.51  |      |                |  |
| IG %                               | 10.0   | 7.9 - 12.1   | 11.4   | 9.2 - 13.6      | 12.2   | 9.9 - 14.5   |      |                |  |
| HPC #                              | 0.011  | 0.008 - 0.014                                      | 0.029  | 0.022 - 0.036   | 0.079  | 0.059 - 0.099                                      |      |                |  |
| RET-He (pg)                        | 24.1   | 20.7 - 27.5  | 24.7   | 21.2 - 28.2     | 26.2   | 22.0 - 30.4  |      |                |  |
| IPF %                              | 21.8   | 17.7 - 25.9  | 21.6   | 17.5 - 25.7     | 21.6   | 17.5 - 25.7  |      |                |  |

\*Not all parameters are available on all analyzer models



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|------------------------------------|--------|--|--------|-----------------|--------|--|------|----------------|--|
| Lot Number:                        |        | 91080810   |        | 91080811        |        | 91080812   |      |                |  |
| Control:                           |        | L1:Level 1   |        | L2:Level 2      |        | L3:Level 3   |      |                |  |
| PARAMETERS                         | MEAN   | EXPECTED RANGE                                     | MEAN   | EXPECTED RANGE  | MEAN   | EXPECTED RANGE                                     | MEAN | EXPECTED RANGE |  |
| RBC (10 <sup>12</sup> /L)          | 2.30   | 2.21 - 2.39  | 4.33   | 4.20 - 4.46     | 5.16   | 5.01 - 5.31  |      |                |  |
| HGB (g/dL)                         | 5.7    | 5.4 - 5.9  | 11.8   | 11.4 - 12.1     | 16.1   | 15.6 - 16.6  |      |                |  |
| HCT (%)                            | 17.3   | 16.3 - 18.3  | 35.1   | 33.3 - 36.9     | 46.5   | 44.2 - 48.8  |      |                |  |
| MCV (fL)                           | 75.2   | 70.7 - 79.7  | 81.1   | 76.2 - 86.0     | 90.1   | 85.6 - 94.6  |      |                |  |
| MCH (pg)                           | 24.6   | 23.4 - 25.8  | 27.2   | 26.1 - 28.3     | 31.3   | 30.0 - 32.6  |      |                |  |
| MCHC (g/dL)                        | 32.8   | 30.2 - 35.4  | 33.5   | 31.2 - 35.8     | 34.7   | 32.3 - 37.1  |      |                |  |
| PLT (10 <sup>9</sup> /L)           | 59     | 45 - 73  | 225    | 203 - 248       | 504    | 464 - 544  |      |                |  |
| RDW-SD (fL)                        | 43.8   | 39.9 - 47.7  | 45.1   | 41.0 - 49.2     | 44.3   | 40.3 - 48.3  |      |                |  |
| RDW-CV (%)                         | 16.1   | 14.8 - 17.4  | 15.4   | 14.5 - 16.3     | 13.9   | 13.1 - 14.7  |      |                |  |
| MPV (fL)                           | 9.0    | 7.8 - 10.2   | 9.3    | 8.6 - 10.0      | 9.5    | 8.8 - 10.2   |      |                |  |
| WBC (10 <sup>9</sup> /L)           | 3.00   | 2.64 - 3.36  | 6.67   | 6.07 - 7.27     | 16.67  | 15.34 - 18.00                                      |      |                |  |
| WBC-D (10 <sup>9</sup> /L)         | 2.76   | 2.43 - 3.09  | 6.30   | 5.73 - 6.87     | 14.75  | 13.42 - 16.08                                      |      |                |  |
| NEUT%                              | 42.6   | 36.6 - 48.6  | 48.2   | 43.4 - 53.0     | 51.2   | 46.1 - 56.3  |      |                |  |
| LYMPH%                             | 38.7   | 31.7 - 45.7  | 33.6   | 28.6 - 38.6     | 29.1   | 24.7 - 33.5  |      |                |  |
| MONO%                              | 9.7    | 4.5 - 14.9   | 7.9    | 4.8 - 11.0      | 8.5    | 5.2 - 11.8   |      |                |  |
| EO%                                | 9.0    | 5.6 - 12.4   | 10.3   | 6.5 - 14.1      | 11.2   | 7.2 - 15.2   |      |                |  |
| BASO%                              | 61.0   | 54.3 - 67.7  | 66.4   | 61.8 - 71.0     | 70.2   | 67.4 - 73.0  |      |                |  |
| NEUT# (10 <sup>9</sup> /L)         | 1.28   | 1.02 - 1.54  | 3.21   | 2.73 - 3.69     | 8.54   | 7.43 - 9.65  |      |                |  |
| LYMPH# (10 <sup>9</sup> /L)        | 1.16   | 0.89 - 1.43  | 2.24   | 1.81 - 2.67     | 4.85   | 4.03 - 5.67  |      |                |  |
| MONO# (10 <sup>9</sup> /L)         | 0.29   | 0.13 - 0.45  | 0.53   | 0.31 - 0.75     | 1.41   | 0.85 - 1.97  |      |                |  |
| EO# (10 <sup>9</sup> /L)           | 0.27   | 0.16 - 0.38  | 0.69   | 0.42 - 0.96     | 1.87   | 1.18 - 2.56  |      |                |  |
| BASO# (10 <sup>9</sup> /L)         | 1.83   | 1.50 - 2.16  | 4.43   | 3.85 - 5.01     | 11.70  | 10.53 - 12.87                                      |      |                |  |
| NRBC# (10 <sup>9</sup> /L)         | 0.14   | 0.06 - 0.22  | 0.42   | 0.28 - 0.56     | 1.12   | 0.87 - 1.36  |      |                |  |
| NRBC% (/100 WBC)                   | 5.0    | 2.3 - 7.8  | 6.7    | 4.5 - 8.9       | 7.0    | 5.5 - 8.5  |      |                |  |
| PLT-O (10 <sup>9</sup> /L)         | 64     | 42 - 86  | 228    | 189 - 267       | 532    | 452 - 611  |      |                |  |
| RET# (10 <sup>12</sup> /L)         | 0.1352 | 0.0933 - 0.1771                                    | 0.1074 | 0.0752 - 0.1396 | 0.0519 | 0.0374 - 0.0664                                    |      |                |  |
| RET%                               | 5.89   | 4.24 - 7.54  | 2.48   | 1.81 - 3.15     | 0.99   | 0.64 - 1.34  |      |                |  |
| IRF (%)                            | 38.8   | 6.6 - 71.0   | 36.1   | 2.9 - 69.3      | 26.3   | 1.3 - 51.3   |      |                |  |
| IG #                               | 0.30   | 0.23 - 0.38  | 0.81   | 0.64 - 0.98     | 2.09   | 1.67 - 2.51  |      |                |  |
| IG %                               | 10.0   | 7.9 - 12.1   | 11.4   | 9.2 - 13.6      | 12.2   | 9.9 - 14.5   |      |                |  |
| HPC #                              | 0.011  | 0.008 - 0.014                                      | 0.029  | 0.022 - 0.036   | 0.079  | 0.059 - 0.099                                      |      |                |  |
| RET-He (pg)                        | 24.1   | 20.7 - 27.5  | 24.7   | 21.2 - 28.2     | 26.2   | 22.0 - 30.4  |      |                |  |
| IPF %                              | 21.8   | 17.7 - 25.9  | 21.6   | 17.5 - 25.7     | 21.6   | 17.5 - 25.7  |      |                |  |

\*Not all parameters are available on all analyzer models