



# e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XT-4000i™, XT-2000i™ and XT-1800i™ ANALYZERS  
OPEN MODE ASSAY

| Expiration Date:            |        | 2024-06-03      |        | Quality Control Data Due Date #1: 22-Apr-24 |        | Quality Control Data Due Date #2: 03-Jun-24 |  |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number:                 |        | 40730810        |        | 40730811                                    |        | 40730812                                    |  |
| 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)   | 2.32   | 2.23 - 2.41     | 4.31   | 4.14 - 4.49                                 | 5.31   | 5.10 - 5.52                                 |  |
| HGB (g/dL)                  | 5.8    | 5.5 - 6.0       | 12.1   | 11.7 - 12.5                                 | 16.4   | 15.9 - 16.9                                 |  |
| HCT (%)                     | 18.1   | 17.0 - 19.1     | 36.3   | 34.5 - 38.1                                 | 48.6   | 46.1 - 51.0                                 |  |
| MCV (fL)                    | 77.9   | 73.2 - 82.5     | 84.2   | 80.0 - 88.4                                 | 91.5   | 86.9 - 96.0                                 |  |
| MCH (pg)                    | 24.9   | 23.2 - 26.6     | 28.0   | 26.3 - 29.7                                 | 30.9   | 29.4 - 32.5                                 |  |
| MCHC (g/dL)                 | 32.0   | 29.1 - 34.9     | 33.3   | 31.0 - 35.6                                 | 33.8   | 31.4 - 36.2                                 |  |
| PLT (10 <sup>9</sup> /L)    | 57     | 42 - 72         | 215    | 192 - 239                                   | 513    | 472 - 554                                   |  |
| RDW-SD (fL)                 | 44.1   | 39.6 - 48.5     | 44.8   | 40.4 - 49.3                                 | 46.5   | 40.9 - 52.1                                 |  |
| RDW-CV (%)                  | 15.9   | 14.3 - 17.5     | 15.2   | 13.9 - 16.4                                 | 14.9   | 13.7 - 16.0                                 |  |
| MPV (fL)                    | 9.0    | 7.8 - 10.2      | 9.4    | 8.7 - 10.0                                  | 9.5    | 9.1 - 10.0                                  |  |
| WBC (10 <sup>9</sup> /L)    | 3.17   | 2.73 - 3.62     | 7.35   | 6.62 - 8.09                                 | 18.46  | 16.80 - 20.13                               |  |
| WBC-D (10 <sup>9</sup> /L)  | 3.04   | 2.64 - 3.43     | 6.72   | 5.98 - 7.46                                 | 17.48  | 15.73 - 19.23                               |  |
| NEUT%                       | 43.2   | 37.2 - 49.3     | 47.3   | 42.6 - 52.0                                 | 52.2   | 47.5 - 56.9                                 |  |
| LYMPH%                      | 36.4   | 28.0 - 44.7     | 31.2   | 25.9 - 36.5                                 | 25.8   | 22.5 - 29.2                                 |  |
| MONO%                       | 11.5   | 4.1 - 18.9      | 11.4   | 6.4 - 16.4                                  | 11.4   | 7.0 - 15.8                                  |  |
| EO%                         | 8.9    | 5.6 - 12.2      | 10.1   | 6.5 - 13.7                                  | 10.6   | 6.9 - 14.3                                  |  |
| BASO%                       | 61.4   | 55.3 - 67.6     | 65.8   | 61.8 - 69.7                                 | 74.0   | 71.1 - 77.0                                 |  |
| NEUT# (10 <sup>9</sup> /L)  | 1.37   | 1.10 - 1.65     | 3.48   | 2.96 - 4.00                                 | 9.64   | 8.38 - 10.89                                |  |
| LYMPH# (10 <sup>9</sup> /L) | 1.15   | 0.84 - 1.47     | 2.30   | 1.84 - 2.76                                 | 4.77   | 4.01 - 5.54                                 |  |
| MONO# (10 <sup>9</sup> /L)  | 0.37   | 0.12 - 0.61     | 0.84   | 0.46 - 1.21                                 | 2.10   | 1.26 - 2.95                                 |  |
| EO# (10 <sup>9</sup> /L)    | 0.28   | 0.17 - 0.39     | 0.74   | 0.47 - 1.02                                 | 1.95   | 1.25 - 2.66                                 |  |
| BASO# (10 <sup>9</sup> /L)  | 1.95   | 1.60 - 2.30     | 4.83   | 4.25 - 5.42                                 | 13.67  | 12.30 - 15.04                               |  |
| PLT-O (10 <sup>9</sup> /L)  | 51     | 33 - 69         | 206    | 167 - 246                                   | 534    | 449 - 619                                   |  |
| RET# (10 <sup>12</sup> /L)  | 0.1221 | 0.0867 - 0.1575 | 0.0844 | 0.0557 - 0.1131                             | 0.0401 | 0.0240 - 0.0561                             |  |
| RET%                        | 5.26   | 3.89 - 6.63     | 1.96   | 1.39 - 2.53                                 | 0.75   | 0.45 - 1.06                                 |  |
| IRF (%)                     | 48.0   | 12.5 - 83.6     | 39.7   | 7.5 - 71.9                                  | 29.3   | 3.5 - 55.1                                  |  |
| IG (#)                      | 0.37   | 0.28 - 0.45     | 0.94   | 0.76 - 1.13                                 | 2.56   | 1.48 - 3.63                                 |  |
| IG (%)                      | 11.6   | 9.3 - 13.9      | 12.8   | 10.5 - 15.1                                 | 13.8   | 8.0 - 19.7                                  |  |
| RET-He (pg)                 | 24.0   | 21.6 - 26.4     | 24.2   | 21.8 - 26.6                                 | 24.7   | 21.3 - 28.2                                 |  |

\*Not all parameters are available on all analyzer models

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|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number:                 |        | 40730810        |        | 40730811                                    |        | 40730812                                    |  |
| 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)   | 2.32   | 2.23 - 2.41     | 4.31   | 4.14 - 4.49                                 | 5.26   | 5.05 - 5.47                                 |  |
| HGB (g/dL)                  | 5.8    | 5.5 - 6.0       | 12.3   | 12.0 - 12.7                                 | 16.4   | 15.9 - 16.9                                 |  |
| HCT (%)                     | 18.1   | 17.0 - 19.1     | 36.3   | 34.5 - 38.1                                 | 48.6   | 46.1 - 51.0                                 |  |
| MCV (fL)                    | 77.9   | 73.2 - 82.5     | 84.2   | 80.0 - 88.4                                 | 92.4   | 87.8 - 97.0                                 |  |
| MCH (pg)                    | 24.9   | 23.2 - 26.6     | 28.6   | 26.9 - 30.3                                 | 31.2   | 29.7 - 32.8                                 |  |
| MCHC (g/dL)                 | 32.0   | 29.1 - 34.9     | 33.9   | 31.6 - 36.3                                 | 33.8   | 31.4 - 36.2                                 |  |
| PLT (10 <sup>9</sup> /L)    | 57     | 42 - 72         | 207    | 184 - 229                                   | 472    | 434 - 510                                   |  |
| RDW-SD (fL)                 | 44.1   | 39.6 - 48.5     | 44.8   | 40.4 - 49.3                                 | 46.5   | 40.9 - 52.1                                 |  |
| RDW-CV (%)                  | 15.9   | 14.3 - 17.5     | 15.2   | 13.9 - 16.4                                 | 14.9   | 13.7 - 16.0                                 |  |
| MPV (fL)                    | 9.0    | 7.8 - 10.2      | 9.4    | 8.7 - 10.0                                  | 9.5    | 9.1 - 10.0                                  |  |
| WBC (10 <sup>9</sup> /L)    | 3.17   | 2.73 - 3.62     | 7.13   | 6.42 - 7.85                                 | 17.91  | 16.30 - 19.52                               |  |
| WBC-D (10 <sup>9</sup> /L)  | 3.07   | 2.67 - 3.46     | 6.92   | 6.16 - 7.68                                 | 17.65  | 15.89 - 19.42                               |  |
| NEUT%                       | 43.5   | 37.4 - 49.6     | 47.4   | 42.7 - 52.2                                 | 51.8   | 47.2 - 56.5                                 |  |
| LYMPH%                      | 36.4   | 28.0 - 44.7     | 31.5   | 26.2 - 36.9                                 | 26.5   | 23.0 - 29.9                                 |  |
| MONO%                       | 11.5   | 4.1 - 18.9      | 10.9   | 6.1 - 15.7                                  | 10.9   | 6.7 - 15.2                                  |  |
| EO%                         | 8.6    | 5.4 - 11.8      | 10.1   | 6.5 - 13.7                                  | 10.7   | 7.0 - 14.5                                  |  |
| BASO%                       | 61.4   | 55.3 - 67.6     | 65.1   | 61.2 - 69.0                                 | 74.8   | 71.8 - 77.8                                 |  |
| NEUT# (10 <sup>9</sup> /L)  | 1.38   | 1.10 - 1.66     | 3.38   | 2.88 - 3.89                                 | 9.28   | 8.08 - 10.49                                |  |
| LYMPH# (10 <sup>9</sup> /L) | 1.15   | 0.84 - 1.47     | 2.25   | 1.80 - 2.70                                 | 4.74   | 3.99 - 5.50                                 |  |
| MONO# (10 <sup>9</sup> /L)  | 0.37   | 0.12 - 0.61     | 0.78   | 0.43 - 1.13                                 | 1.96   | 1.18 - 2.74                                 |  |
| EO# (10 <sup>9</sup> /L)    | 0.27   | 0.17 - 0.38     | 0.72   | 0.45 - 0.98                                 | 1.92   | 1.23 - 2.61                                 |  |
| BASO# (10 <sup>9</sup> /L)  | 1.95   | 1.60 - 2.30     | 4.64   | 4.09 - 5.20                                 | 13.39  | 12.05 - 14.73                               |  |
| PLT-O (10 <sup>9</sup> /L)  | 51     | 33 - 69         | 206    | 167 - 246                                   | 518    | 435 - 601                                   |  |
| RET# (10 <sup>12</sup> /L)  | 0.1160 | 0.0823 - 0.1496 | 0.0844 | 0.0557 - 0.1131                             | 0.0397 | 0.0238 - 0.0555                             |  |
| RET%                        | 5.00   | 3.70 - 6.30     | 1.96   | 1.39 - 2.53                                 | 0.75   | 0.45 - 1.06                                 |  |
| IRF (%)                     | 48.0   | 12.5 - 83.6     | 39.7   | 7.5 - 71.9                                  | 29.3   | 3.5 - 55.1                                  |  |
| IG (#)                      | 0.37   | 0.28 - 0.45     | 0.92   | 0.73 - 1.10                                 | 2.48   | 1.44 - 3.52                                 |  |
| IG (%)                      | 11.6   | 9.3 - 13.9      | 12.8   | 10.5 - 15.1                                 | 13.8   | 8.0 - 19.7                                  |  |
| RET-He (pg)                 | 24.0   | 21.6 - 26.4     | 24.2   | 21.8 - 26.6                                 | 24.7   | 21.3 - 28.2                                 |  |

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