



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS

OPEN MODE ASSAY

| Expiration Date: | | 2021-11-22 | | Quality Control Data Due Date #1: 11-Oct-21 | | Quality Control Data Due Date #2: 22-Nov-21 | |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number: | | 12440801 | | 12440802 | | 12440803 | |
| Control: | | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | |
| RBC (10 ¹² /L) | 2.34 | 2.24 - 2.43 | 4.35 | 4.22 - 4.48 | 5.28 | 5.12 - 5.44 | |
| HGB (g/dL) | 5.5 | 5.3 - 5.7 | 11.8 | 11.4 - 12.2 | 16.4 | 15.9 - 16.9 | |
| HCT (%) | 16.8 | 15.8 - 17.8 | 34.9 | 33.2 - 36.7 | 46.9 | 44.6 - 49.3 | |
| MCV (fL) | 72.0 | 67.7 - 76.3 | 80.3 | 75.5 - 85.1 | 88.8 | 84.4 - 93.3 | |
| MCH (pg) | 23.5 | 22.3 - 24.7 | 27.1 | 26.1 - 28.2 | 31.1 | 29.9 - 32.4 | |
| MCHC (g/dL) | 32.7 | 30.0 - 35.3 | 33.8 | 31.4 - 36.2 | 35.0 | 32.6 - 37.5 | |
| PLT (10 ⁹ /L) | 62 | 48 - 77 | 237 | 214 - 261 | 565 | 520 - 610 | |
| RDW-SD (fL) | 45.8 | 41.7 - 49.9 | 47.9 | 43.6 - 52.2 | 43.4 | 39.5 - 47.3 | |
| RDW-CV (%) | 17.6 | 16.2 - 19.0 | 16.4 | 15.5 - 17.4 | 13.6 | 12.8 - 14.4 | |
| MPV (fL) | 9.1 | 8.0 - 10.3 | 9.4 | 8.7 - 10.2 | 9.6 | 8.9 - 10.3 | |
| WBC (10 ⁹ /L) | 3.01 | 2.65 - 3.38 | 6.94 | 6.32 - 7.57 | 16.19 | 14.90 - 17.49 | |
| NEUT% | 44.6 | 38.3 - 50.8 | 48.9 | 44.0 - 53.8 | 51.7 | 46.5 - 56.9 | |
| LYMPH% | 37.7 | 30.9 - 44.5 | 32.3 | 27.5 - 37.2 | 28.3 | 24.1 - 32.6 | |
| MONO% | 8.5 | 3.9 - 13.1 | 8.6 | 5.2 - 11.9 | 9.0 | 5.5 - 12.5 | |
| EO% | 9.2 | 5.7 - 12.8 | 10.2 | 6.4 - 13.9 | 11.0 | 7.0 - 15.0 | |
| BASO% | 62.7 | 55.8 - 69.5 | 68.4 | 63.6 - 73.2 | 72.6 | 69.0 - 76.2 | |
| NEUT# (10 ⁹ /L) | 1.34 | 1.07 - 1.61 | 3.39 | 2.89 - 3.90 | 8.37 | 7.28 - 9.46 | |
| LYMPH# (10 ⁹ /L) | 1.14 | 0.87 - 1.40 | 2.24 | 1.82 - 2.67 | 4.59 | 3.81 - 5.37 | |
| MONO# (10 ⁹ /L) | 0.26 | 0.11 - 0.40 | 0.60 | 0.35 - 0.85 | 1.46 | 0.87 - 2.04 | |
| EO# (10 ⁹ /L) | 0.28 | 0.17 - 0.39 | 0.71 | 0.43 - 0.98 | 1.78 | 1.12 - 2.44 | |
| BASO# (10 ⁹ /L) | 1.89 | 1.55 - 2.23 | 4.75 | 4.13 - 5.36 | 11.76 | 10.58 - 12.93 | |
| NRBC# (10 ⁹ /L) | 2.87 | 2.38 - 3.36 | 6.62 | 5.76 - 7.48 | 16.83 | 14.81 - 18.85 | |
| NRBC% (/100 WBC) | 100.0 | N/A - N/A | 100.0 | N/A - N/A | 100.0 | N/A - N/A | |
| PLT-O (10 ⁹ /L) | 66 | 44 - 89 | 232 | 193 - 272 | 558 | 474 - 642 | |
| RET# (10 ¹² /L) | 0.1308 | 0.0903 - 0.1714 | 0.1043 | 0.0730 - 0.1356 | 0.0585 | 0.0421 - 0.0749 | |
| RET% | 5.60 | 4.03 - 7.17 | 2.40 | 1.75 - 3.05 | 1.11 | 0.72 - 1.49 | |
| IRF (%) | 47.6 | 8.1 - 87.2 | 39.6 | 3.2 - 76.1 | 32.1 | 1.6 - 62.5 | |
| ^a IG (#) | 0.31 | 0.23 - 0.39 | 0.77 | 0.61 - 0.94 | 1.93 | 1.54 - 2.32 | |
| ^a IG (%) | 10.38 | 8.20 - 12.55 | 11.14 | 9.02 - 13.25 | 11.92 | 9.66 - 14.18 | |
| ^b HPC (#) | 0.013 | 0.009 - 0.017 | 0.031 | 0.023 - 0.038 | 0.083 | 0.062 - 0.103 | |
| ^c RET-He (pg) | 23.8 | 20.4 - 27.1 | 24.3 | 20.9 - 27.7 | 25.9 | 21.7 - 30.0 | |
| ^d IPF (%) | 21.6 | 17.5 - 25.7 | 22.5 | 18.2 - 26.8 | 21.6 | 17.5 - 25.7 | |

^aIG values are only available with the Sysmex XE-Series IG Master software.
^cRET-He values are only available with the Sysmex XE-Series RET Master software.

^bHPC values are only available with the Sysmex XE-Series HPC Master software.
^dIPF values are only available with the Sysmex XE-Series IPF Master software.



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HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS

CLOSED MODE ASSAY

| Expiration Date: | | 2021-11-22 | | Quality Control Data Due Date #1: 11-Oct-21 | | Quality Control Data Due Date #2: 22-Nov-21 | |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number: | | 12440801 | | 12440802 | | 12440803 | |
| Control: | | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | |
| RBC (10 ¹² /L) | 2.34 | 2.24 - 2.43 | 4.35 | 4.22 - 4.48 | 5.23 | 5.07 - 5.39 | |
| HGB (g/dL) | 5.5 | 5.3 - 5.7 | 11.7 | 11.4 - 12.1 | 16.3 | 15.8 - 16.8 | |
| HCT (%) | 16.8 | 15.8 - 17.8 | 34.9 | 33.2 - 36.7 | 46.9 | 44.6 - 49.3 | |
| MCV (fL) | 72.0 | 67.7 - 76.3 | 80.3 | 75.5 - 85.1 | 89.7 | 85.2 - 94.2 | |
| MCH (pg) | 23.6 | 22.4 - 24.8 | 27.0 | 25.9 - 28.1 | 31.1 | 29.9 - 32.4 | |
| MCHC (g/dL) | 32.8 | 30.2 - 35.4 | 33.6 | 31.3 - 36.0 | 34.7 | 32.3 - 37.1 | |
| PLT (10 ⁹ /L) | 62 | 48 - 77 | 233 | 209 - 256 | 531 | 489 - 574 | |
| RDW-SD (fL) | 45.3 | 41.3 - 49.4 | 47.4 | 43.1 - 51.7 | 43.4 | 39.5 - 47.3 | |
| RDW-CV (%) | 17.4 | 16.0 - 18.8 | 16.3 | 15.3 - 17.3 | 13.6 | 12.8 - 14.4 | |
| MPV (fL) | 9.1 | 8.0 - 10.3 | 9.4 | 8.7 - 10.2 | 9.6 | 8.9 - 10.3 | |
| WBC (10 ⁹ /L) | 2.92 | 2.57 - 3.27 | 6.52 | 5.94 - 7.11 | 15.87 | 14.60 - 17.14 | |
| NEUT% | 45.1 | 38.8 - 51.4 | 49.0 | 44.1 - 53.9 | 52.2 | 47.0 - 57.5 | |
| LYMPH% | 37.3 | 30.6 - 44.0 | 33.0 | 28.0 - 37.9 | 28.0 | 23.8 - 32.3 | |
| MONO% | 8.4 | 3.9 - 13.0 | 7.9 | 4.8 - 11.0 | 8.7 | 5.3 - 12.1 | |
| EO% | 9.1 | 5.7 - 12.6 | 10.1 | 6.3 - 13.8 | 11.0 | 7.0 - 15.0 | |
| BASO% | 62.7 | 55.8 - 69.5 | 69.1 | 64.2 - 73.9 | 72.6 | 69.0 - 76.2 | |
| NEUT# (10 ⁹ /L) | 1.32 | 1.05 - 1.58 | 3.20 | 2.72 - 3.68 | 8.29 | 7.21 - 9.37 | |
| LYMPH# (10 ⁹ /L) | 1.09 | 0.84 - 1.34 | 2.15 | 1.74 - 2.56 | 4.45 | 3.69 - 5.21 | |
| MONO# (10 ⁹ /L) | 0.25 | 0.11 - 0.38 | 0.52 | 0.30 - 0.73 | 1.38 | 0.83 - 1.94 | |
| EO# (10 ⁹ /L) | 0.27 | 0.16 - 0.37 | 0.66 | 0.40 - 0.91 | 1.74 | 1.10 - 2.39 | |
| BASO# (10 ⁹ /L) | 1.83 | 1.50 - 2.16 | 4.51 | 3.92 - 5.09 | 11.52 | 10.37 - 12.67 | |
| NRBC# (10 ⁹ /L) | 2.84 | 2.36 - 3.33 | 6.36 | 5.53 - 7.18 | 16.66 | 14.66 - 18.66 | |
| NRBC% (/100 WBC) | 100.0 | N/A - N/A | 100.0 | N/A - N/A | 100.0 | N/A - N/A | |
| PLT-O (10 ⁹ /L) | 67 | 44 - 90 | 232 | 193 - 272 | 541 | 460 - 622 | |
| RET# (10 ¹² /L) | 0.1282 | 0.0885 - 0.1680 | 0.1032 | 0.0723 - 0.1342 | 0.0576 | 0.0415 - 0.0737 | |
| RET% | 5.49 | 3.95 - 7.03 | 2.37 | 1.73 - 3.02 | 1.10 | 0.72 - 1.49 | |
| IRF (%) | 45.3 | 7.7 - 82.8 | 39.6 | 3.2 - 76.1 | 33.3 | 1.7 - 65.0 | |
| ^a IG (#) | 0.30 | 0.23 - 0.38 | 0.73 | 0.57 - 0.88 | 1.89 | 1.51 - 2.27 | |
| ^a IG (%) | 10.38 | 8.20 - 12.55 | 11.14 | 9.02 - 13.25 | 11.92 | 9.66 - 14.18 | |
| ^b HPC (#) | 0.013 | 0.009 - 0.017 | 0.031 | 0.023 - 0.038 | 0.083 | 0.062 - 0.103 | |
| ^c RET-He (pg) | 23.3 | 20.0 - 26.5 | 23.8 | 20.4 - 27.1 | 25.4 | 21.3 - 29.4 | |
| ^d IPF (%) | 21.6 | 17.5 - 25.7 | 22.5 | 18.2 - 26.8 | 21.6 | 17.5 - 25.7 | |

^aIG values are only available with the Sysmex XE-Series IG Master software.
^cRET-He values are only available with the Sysmex XE-Series RET Master software.

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^dIPF values are only available with the Sysmex XE-Series IPF Master software.



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XT-1800i™ and XT-2000i™ ANALYZERS

OPEN MODE ASSAY

| Expiration Date: | | 2021-11-22 | | Quality Control Data Due Date #1: 11-Oct-21 | | Quality Control Data Due Date #2: 22-Nov-21 | |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number: | | 12440801 | | 12440802 | | 12440803 | |
| Control: | | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | |
| RBC (10 ¹² /L) | 2.34 | 2.24 - 2.43 | 4.35 | 4.17 - 4.52 | 5.31 | 5.09 - 5.52 | |
| HGB (g/dL) | 5.4 | 5.2 - 5.6 | 11.7 | 11.3 - 12.0 | 16.3 | 15.8 - 16.8 | |
| HCT (%) | 17.0 | 16.0 - 18.0 | 35.1 | 33.4 - 36.9 | 47.7 | 45.3 - 50.1 | |
| MCV (fL) | 72.8 | 68.4 - 77.2 | 80.8 | 76.7 - 84.8 | 89.9 | 85.4 - 94.4 | |
| MCH (pg) | 23.1 | 21.5 - 24.7 | 26.8 | 25.2 - 28.4 | 30.7 | 29.2 - 32.2 | |
| MCHC (g/dL) | 31.7 | 28.9 - 34.6 | 33.2 | 30.9 - 35.5 | 34.2 | 31.8 - 36.6 | |
| PLT (10 ⁹ /L) | 64 | 47 - 81 | 238 | 212 - 264 | 557 | 512 - 601 | |
| RDW-SD (fL) | 46.4 | 41.7 - 51.0 | 48.3 | 43.5 - 53.1 | 43.6 | 38.3 - 48.8 | |
| RDW-CV (%) | 17.8 | 16.0 - 19.5 | 17.0 | 15.7 - 18.4 | 14.0 | 12.9 - 15.2 | |
| MPV (fL) | 9.3 | 8.1 - 10.5 | 9.7 | 9.0 - 10.3 | 9.9 | 9.4 - 10.3 | |
| WBC (10 ⁹ /L) | 2.93 | 2.52 - 3.34 | 6.97 | 6.27 - 7.66 | 16.41 | 14.93 - 17.89 | |
| NEUT% | 45.4 | 39.0 - 51.7 | 48.2 | 43.4 - 53.0 | 51.1 | 46.5 - 55.7 | |
| LYMPH% | 35.7 | 27.5 - 43.9 | 31.3 | 26.0 - 36.6 | 27.1 | 23.6 - 30.6 | |
| MONO% | 9.6 | 3.4 - 15.7 | 10.2 | 5.7 - 14.7 | 10.3 | 6.3 - 14.3 | |
| EO% | 9.4 | 5.9 - 12.9 | 10.3 | 6.6 - 14.0 | 11.5 | 7.5 - 15.5 | |
| BASO% | 63.4 | 57.1 - 69.7 | 68.1 | 64.0 - 72.1 | 76.4 | 72.6 - 80.2 | |
| NEUT# (10 ⁹ /L) | 1.33 | 1.06 - 1.59 | 3.36 | 2.85 - 3.86 | 8.39 | 7.30 - 9.48 | |
| LYMPH# (10 ⁹ /L) | 1.04 | 0.76 - 1.33 | 2.18 | 1.74 - 2.62 | 4.45 | 3.73 - 5.16 | |
| MONO# (10 ⁹ /L) | 0.28 | 0.10 - 0.47 | 0.71 | 0.39 - 1.03 | 1.69 | 1.01 - 2.36 | |
| EO# (10 ⁹ /L) | 0.28 | 0.17 - 0.38 | 0.72 | 0.45 - 0.98 | 1.89 | 1.21 - 2.57 | |
| BASO# (10 ⁹ /L) | 1.86 | 1.52 - 2.19 | 4.74 | 4.17 - 5.31 | 12.54 | 11.28 - 13.79 | |
| PLT-O (10 ⁹ /L) | 61 | 39 - 82 | 220 | 179 - 262 | 552 | 464 - 640 | |
| RET# (10 ¹² /L) | 0.1120 | 0.0795 - 0.1445 | 0.0795 | 0.0524 - 0.1065 | 0.0441 | 0.0265 - 0.0618 | |
| RET% | 4.79 | 3.55 - 6.04 | 1.83 | 1.30 - 2.36 | 0.83 | 0.49 - 1.17 | |
| IRF (%) | 55.3 | 14.4 - 96.2 | 48.8 | 9.3 - 88.3 | 37.8 | 4.5 - 71.1 | |
| ^a IG (#) | 0.36 | 0.28 - 0.44 | 0.92 | 0.74 - 1.11 | 2.26 | 1.31 - 3.21 | |
| ^a IG (%) | 12.22 | 9.77 - 14.66 | 13.25 | 10.86 - 15.63 | 13.76 | 7.98 - 19.53 | |
| ^c RET-He (pg) | 23.9 | 21.5 - 26.3 | 23.9 | 21.5 - 26.3 | 24.1 | 20.7 - 27.5 | |

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^cRET-He values are only available with the Sysmex XT-Series RET Master software.

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HEMATOLOGY CONTROL FOR SYSMEX XT-1800i™ and XT-2000i™ ANALYZERS

CLOSED MODE ASSAY

| Expiration Date: | | 2021-11-22 | | Quality Control Data Due Date #1: 11-Oct-21 | | Quality Control Data Due Date #2: 22-Nov-21 | |
|-----------------------------|--------|-----------------|--------|---|--------|---|--|
| Lot Number: | | 12440801 | | 12440802 | | 12440803 | |
| Control: | | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | |
| RBC (10 ¹² /L) | 2.34 | 2.24 - 2.43 | 4.35 | 4.17 - 4.52 | 5.20 | 4.99 - 5.41 | |
| HGB (g/dL) | 5.4 | 5.2 - 5.6 | 11.8 | 11.4 - 12.1 | 16.1 | 15.6 - 16.6 | |
| HCT (%) | 17.0 | 16.0 - 18.0 | 35.1 | 33.4 - 36.9 | 47.7 | 45.3 - 50.1 | |
| MCV (fL) | 72.8 | 68.4 - 77.2 | 80.8 | 76.7 - 84.8 | 91.7 | 87.1 - 96.3 | |
| MCH (pg) | 23.1 | 21.5 - 24.7 | 27.1 | 25.5 - 28.7 | 31.0 | 29.5 - 32.6 | |
| MCHC (g/dL) | 31.7 | 28.9 - 34.6 | 33.5 | 31.2 - 35.9 | 33.8 | 31.5 - 36.2 | |
| PLT (10 ⁹ /L) | 65 | 48 - 82 | 231 | 206 - 256 | 512 | 471 - 553 | |
| RDW-SD (fL) | 46.4 | 41.7 - 51.0 | 48.3 | 43.5 - 53.1 | 43.6 | 38.3 - 48.8 | |
| RDW-CV (%) | 17.8 | 16.0 - 19.5 | 17.0 | 15.7 - 18.4 | 14.0 | 12.9 - 15.2 | |
| MPV (fL) | 9.3 | 8.1 - 10.5 | 9.7 | 9.0 - 10.3 | 9.9 | 9.4 - 10.3 | |
| WBC (10 ⁹ /L) | 2.93 | 2.52 - 3.34 | 6.76 | 6.08 - 7.43 | 15.92 | 14.49 - 17.35 | |
| NEUT% | 45.5 | 39.2 - 51.9 | 48.2 | 43.4 - 53.0 | 52.0 | 47.4 - 56.7 | |
| LYMPH% | 35.7 | 27.5 - 43.9 | 31.3 | 26.0 - 36.6 | 26.8 | 23.3 - 30.3 | |
| MONO% | 9.6 | 3.4 - 15.7 | 10.0 | 5.6 - 14.4 | 9.9 | 6.0 - 13.7 | |
| EO% | 9.2 | 5.8 - 12.6 | 10.5 | 6.7 - 14.3 | 11.3 | 7.3 - 15.2 | |
| BASO% | 62.8 | 56.5 - 69.0 | 67.4 | 63.3 - 71.4 | 75.6 | 71.8 - 79.4 | |
| NEUT# (10 ⁹ /L) | 1.33 | 1.07 - 1.60 | 3.26 | 2.77 - 3.74 | 8.28 | 7.21 - 9.36 | |
| LYMPH# (10 ⁹ /L) | 1.04 | 0.76 - 1.33 | 2.11 | 1.69 - 2.54 | 4.27 | 3.59 - 4.95 | |
| MONO# (10 ⁹ /L) | 0.28 | 0.10 - 0.47 | 0.68 | 0.37 - 0.98 | 1.57 | 0.94 - 2.20 | |
| EO# (10 ⁹ /L) | 0.27 | 0.16 - 0.37 | 0.71 | 0.45 - 0.97 | 1.79 | 1.15 - 2.44 | |
| BASO# (10 ⁹ /L) | 1.84 | 1.51 - 2.17 | 4.55 | 4.01 - 5.10 | 12.04 | 10.83 - 13.24 | |
| PLT-O (10 ⁹ /L) | 61 | 39 - 82 | 220 | 179 - 262 | 535 | 450 - 621 | |
| RET# (10 ¹² /L) | 0.1008 | 0.0716 - 0.1301 | 0.0795 | 0.0524 - 0.1065 | 0.0432 | 0.0259 - 0.0605 | |
| RET% | 4.31 | 3.19 - 5.43 | 1.83 | 1.30 - 2.36 | 0.83 | 0.49 - 1.17 | |
| IRF (%) | 55.3 | 14.4 - 96.2 | 48.8 | 9.3 - 88.3 | 37.8 | 4.5 - 71.1 | |
| ^a IG (#) | 0.36 | 0.28 - 0.45 | 0.91 | 0.73 - 1.10 | 2.23 | 1.30 - 3.17 | |
| ^a IG (%) | 12.46 | 9.97 - 14.95 | 13.51 | 11.08 - 15.94 | 14.03 | 8.14 - 19.92 | |
| ^c RET-He (pg) | 23.9 | 21.5 - 26.3 | 23.9 | 21.5 - 26.3 | 24.1 | 20.7 - 27.5 | |

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^cRET-He values are only available with the Sysmex XT-Series RET Master software.

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