



**HEMATOLOGY CONTROL FOR SYSMEX XE SERIES ANALYZERS
OPEN MODE ASSAY**

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|------------------------------------|-----------------------------|--|-----------------|-------------|--|-------------|-----------------|-----------------------|--|
| Expiration Date: 2012-01-30 | | Quality Control Data Due Date #1: 19-Dec-11 | | | Quality Control Data Due Date #2: 30-Jan-12 | | | | |
| Lot Number: | | 13120801 | | 13120802 | | 13120803 | | | |
| Control: | | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | | | |
| PARAMETERS | MEAN | EXPECTED RANGE | | MEAN | EXPECTED RANGE | | MEAN | EXPECTED RANGE | |
| OPEN | RBC (10 ¹² /L) | 2.26 | 2.17 - 2.35 | 4.31 | 4.18 - 4.44 | 5.13 | 4.98 - 5.28 | | |
| | HGB (g/dL) | 5.7 | 5.5 - 5.9 | 12.4 | 12.0 - 12.8 | 15.9 | 15.4 - 16.4 | | |
| | HCT (%) | 17.4 | 16.5 - 18.3 | 36.3 | 34.7 - 37.9 | 45.6 | 43.5 - 47.7 | | |
| | MCV (fL) | 76.8 | 70.3 - 84.2 | 84.4 | 78.1 - 90.7 | 89.0 | 82.4 - 95.8 | | |
| | MCH (pg) | 25.2 | 23.3 - 27.3 | 28.7 | 27.1 - 30.5 | 31.1 | 29.2 - 32.9 | | |
| | MCHC (g/dL) | 32.8 | 30.0 - 35.9 | 34.1 | 31.7 - 36.8 | 34.9 | 32.4 - 37.6 | | |
| | PLT (10 ⁹ /L) | 56 | 34 - 78 | 219 | 195 - 243 | 524 | 477 - 571 | | |
| | RDW-SD (fL) | 45.0 | 40.5 - 49.5 | 43.8 | 39.4 - 48.2 | 44.9 | 40.4 - 49.4 | | |
| | RDW-CV (%) | 16.1 | 14.5 - 17.7 | 14.3 | 12.9 - 15.7 | 13.9 | 12.5 - 15.3 | | |
| | MPV (fL) | 9.3 | 8.6 - 10.0 | 9.6 | 9.0 - 10.2 | 9.8 | 9.2 - 10.4 | | |
| | WBC (10 ⁹ /L) | 3.03 | 2.73 - 3.33 | 6.97 | 6.55 - 7.39 | 16.56 | 15.57 - 17.55 | | |
| | NEUT% | 45.3 | 36.2 - 54.4 | 47.9 | 40.7 - 55.1 | 51.9 | 44.1 - 59.7 | | |
| | LYMPH% | 34.3 | 20.6 - 48.0 | 30.3 | 24.2 - 36.4 | 26.3 | 21.0 - 31.6 | | |
| | MONO% | 10.8 | 2.2 - 19.4 | 11.6 | 7.0 - 16.2 | 10.6 | 7.4 - 13.8 | | |
| | EO% | 9.6 | 6.7 - 12.5 | 10.2 | 7.1 - 13.3 | 11.2 | 8.4 - 14.0 | | |
| | BASO% | 65.6 | 45.9 - 85.3 | 69.9 | 48.9 - 90.9 | 73.7 | 55.3 - 92.1 | | |
| | NEUT# (10 ⁹ /L) | 1.37 | 1.10 - 1.64 | 3.34 | 2.84 - 3.84 | 8.60 | 7.31 - 9.89 | | |
| | LYMPH# (10 ⁹ /L) | 1.04 | 0.62 - 1.46 | 2.11 | 1.69 - 2.53 | 4.35 | 3.48 - 5.22 | | |
| | MONO# (10 ⁹ /L) | 0.33 | 0.07 - 0.59 | 0.81 | 0.32 - 1.30 | 1.76 | 1.06 - 2.46 | | |
| | EO# (10 ⁹ /L) | 0.29 | 0.20 - 0.38 | 0.71 | 0.50 - 0.92 | 1.85 | 1.39 - 2.31 | | |
| | BASO# (10 ⁹ /L) | 1.99 | 1.39 - 2.59 | 4.87 | 3.41 - 6.33 | 12.21 | 9.16 - 15.26 | | |
| | NRBC# (10 ⁹ /L) | 3.00 | 2.70 - 3.30 | 6.94 | 6.52 - 7.36 | 17.72 | 16.66 - 18.78 | | |
| | 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) | 65 | 36 - 94 | 233 | 198 - 268 | 533 | 453 - 613 | | |
| | RET# (10 ¹² /L) | 0.1302 | 0.0911 - 0.1693 | 0.1061 | 0.0743 - 0.1379 | 0.0546 | 0.0382 - 0.0710 | | |
| | RET% | 5.76 | 4.03 - 7.49 | 2.46 | 1.72 - 3.20 | 1.07 | 0.75 - 1.39 | | |
| | IRF (%) | 39.8 | 19.8 - 59.8 | 34.7 | 14.7 - 54.7 | 27.5 | 7.5 - 47.5 | | |
| | ^a IG # | 0.32 | 0.29 - 0.35 | 0.78 | 0.59 - 0.98 | 2.03 | 1.42 - 2.64 | | |
| | ^a IG % | 10.55 | 7.39 - 13.72 | 11.23 | 8.42 - 14.04 | 12.25 | 7.35 - 17.15 | | |
| | ^b HPC # | 0.016 | 0.014 - 0.018 | 0.037 | 0.033 - 0.041 | 0.102 | 0.092 - 0.112 | | |
| ^c RET-HE (pg) | 24.2 | 16.9 - 31.5 | 24.9 | 18.7 - 31.1 | 26.0 | 15.6 - 36.4 | | | |
| ^d IPF (%) | 21.7 | 18.4 - 25.0 | 21.6 | 18.4 - 24.8 | 21.4 | 18.2 - 24.6 | | | |

^a IG values are only available with the Sysmex XE-Series IG Master software.
^b HPC values are only available with the Sysmex XE-Series HPC Master software.
^c RET-HE values are only available with the Sysmex XE-Series RET Master software.
^d IPF values are only available with the Sysmex XE-Series IPF Master software.



**HEMATOLOGY CONTROL FOR SYSMEX XE SERIES ANALYZERS
CLOSED MODE ASSAY**

| | | | | | | | |
|--|-----------------------------|--|-----------------------|-------------|--|-------------|-----------------------|
| Expiration Date: 2012-01-30 | | Quality Control Data Due Date #1: 19-Dec-11 | | | Quality Control Data Due Date #2: 30-Jan-12 | | |
| Lot Number: | | 13120801 | | 13120802 | | 13120803 | |
| Control: | | L1:Level 1 | | L2:Level 2 | | L3:Level 3 | |
| C L O S E D | PARAMETERS | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE | MEAN | EXPECTED RANGE |
| | RBC (10 ¹² /L) | 2.26 | 2.12 - 2.40 | 4.31 | 4.09 - 4.53 | 5.13 | 4.87 - 5.39 |
| | HGB (g/dL) | 5.7 | 5.4 - 6.0 | 12.4 | 11.8 - 13.0 | 15.9 | 15.1 - 16.7 |
| | HCT (%) | 17.4 | 16.2 - 18.6 | 36.3 | 34.1 - 38.5 | 45.6 | 42.9 - 48.3 |
| | MCV (fL) | 76.8 | 67.5 - 87.6 | 84.4 | 75.4 - 94.0 | 89.0 | 79.6 - 99.2 |
| | MCH (pg) | 25.2 | 22.4 - 28.4 | 28.7 | 26.0 - 31.8 | 31.1 | 28.0 - 34.3 |
| | MCHC (g/dL) | 32.8 | 28.8 - 37.3 | 34.1 | 30.6 - 38.2 | 34.9 | 31.3 - 38.9 |
| | PLT (10 ⁹ /L) | 55 | 27 - 82 | 210 | 179 - 242 | 487 | 414 - 560 |
| | RDW-SD (fL) | 45.0 | 40.5 - 49.5 | 43.8 | 39.4 - 48.2 | 44.9 | 40.4 - 49.4 |
| | RDW-CV (%) | 16.1 | 14.5 - 17.7 | 14.3 | 12.9 - 15.7 | 13.9 | 12.5 - 15.3 |
| | MPV (fL) | 9.3 | 8.6 - 10.0 | 9.6 | 9.0 - 10.2 | 9.8 | 9.2 - 10.4 |
| | WBC (10 ⁹ /L) | 2.94 | 2.50 - 3.38 | 6.62 | 6.03 - 7.22 | 16.23 | 14.93 - 17.53 |
| | NEUT% | 45.1 | 36.1 - 54.1 | 48.3 | 41.0 - 55.5 | 51.3 | 43.6 - 59.0 |
| | LYMPH% | 34.3 | 20.6 - 48.1 | 30.0 | 24.0 - 35.9 | 26.8 | 21.4 - 32.2 |
| | MONO% | 11.2 | 2.2 - 20.2 | 11.5 | 6.9 - 16.1 | 10.5 | 7.4 - 13.7 |
| | EO% | 9.4 | 6.6 - 12.2 | 10.3 | 7.2 - 13.4 | 11.4 | 8.5 - 14.2 |
| | BASO% | 66.4 | 46.4 - 86.3 | 68.4 | 47.9 - 88.9 | 72.2 | 54.2 - 90.3 |
| | NEUT# (10 ⁹ /L) | 1.32 | 1.06 - 1.59 | 3.20 | 2.72 - 3.67 | 8.32 | 7.07 - 9.57 |
| | LYMPH# (10 ⁹ /L) | 1.01 | 0.61 - 1.41 | 1.98 | 1.59 - 2.38 | 4.35 | 3.48 - 5.22 |
| | MONO# (10 ⁹ /L) | 0.33 | 0.07 - 0.59 | 0.76 | 0.30 - 1.22 | 1.71 | 1.02 - 2.39 |
| | EO# (10 ⁹ /L) | 0.28 | 0.19 - 0.36 | 0.68 | 0.48 - 0.89 | 1.85 | 1.39 - 2.31 |
| | BASO# (10 ⁹ /L) | 1.95 | 1.37 - 2.54 | 4.53 | 3.17 - 5.89 | 11.72 | 8.79 - 14.65 |
| | NRBC# (10 ⁹ /L) | 2.97 | 2.67 - 3.27 | 6.80 | 6.39 - 7.21 | 17.54 | 16.49 - 18.60 |
| | 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) | 62 | 31 - 93 | 228 | 194 - 263 | 522 | 444 - 601 |
| | RET# (10 ¹² /L) | 0.1302 | 0.0911 - 0.1693 | 0.1061 | 0.0743 - 0.1379 | 0.0546 | 0.0382 - 0.0710 |
| | RET% | 5.76 | 4.03 - 7.49 | 2.46 | 1.72 - 3.20 | 1.07 | 0.75 - 1.39 |
| | IRF (%) | 39.8 | 19.8 - 59.8 | 34.7 | 14.7 - 54.7 | 27.5 | 7.5 - 47.5 |
| | ^a IG # | 0.32 | 0.29 - 0.35 | 0.78 | 0.59 - 0.98 | 2.03 | 1.42 - 2.64 |
| | ^a IG % | 10.55 | 7.39 - 13.72 | 11.23 | 8.42 - 14.04 | 12.25 | 7.35 - 17.15 |
| | ^b HPC # | 0.016 | 0.014 - 0.018 | 0.037 | 0.033 - 0.041 | 0.102 | 0.092 - 0.112 |
| | ^c RET-HE (pg) | 24.2 | 16.9 - 31.5 | 24.9 | 18.7 - 31.1 | 26.0 | 15.6 - 36.4 |
| | ^d IPF (%) | 21.7 | 18.4 - 25.0 | 21.6 | 18.4 - 24.8 | 21.4 | 18.2 - 24.6 |

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^b HPC values are only available with the Sysmex XE-Series HPC Master software.
^c RET-HE values are only available with the Sysmex XE-Series RET Master software.
^d IPF values are only available with the Sysmex XE-Series IPF Master software.