



# EIGHTCHECK-3WP X-TRA™

## HEMATOLOGY CONTROL

| Expiration Date: 2009-09-09                                   | Quality Control<br>Data Due Date #1: 07-Jul-09 |                | Quality Control<br>Data Due Date #2: 11-Aug-09 |                | Quality Control<br>Data Due Date #3: 14-Sep-09 |                |
|---|--|----------------|--|----------------|--|----------------|
| Lot Number:   | 91530710                                       |                | 91530711                                       |                | 91530712                                       |                |
| Control:  | Low Abnormal                                   |                | Normal   |                | High Abnormal                                  |                |
| Parameters  | Mean   | Expected Range | Mean   | Expected Range | Mean   | Expected Range |
| <b>SYSMEX KX-SERIES</b>                                       |  |                |  |                |  |                |
| WBC x10 <sup>3</sup> /μL                                      | 3.1  | 2.7 - 3.6      | 7.2  | 6.5 - 8.0      | 18.1   | 16.3 - 19.9    |
| RBC x10 <sup>9</sup> /μL                                      | 2.28   | 2.08 - 2.48    | 4.24   | 3.99 - 4.49    | 5.17   | 4.91 - 5.43    |
| HGB g/dL  | 6.6  | 6.2 - 7.0      | 13.0   | 12.2 - 13.8    | 16.5   | 15.7 - 17.3    |
| HCT %   | 17.6   | 16.1 - 19.1    | 34.5   | 32.1 - 36.9    | 44.0   | 40.5 - 47.5    |
| MCV fL  | 77.2   | 64.9 - 91.8    | 81.4   | 71.4 - 92.6    | 85.1   | 74.6 - 96.8    |
| MCH pg  | 28.9   | 25.0 - 33.6    | 30.7   | 27.2 - 34.6    | 31.9   | 28.9 - 35.3    |
| MCHC g/dL   | 37.5   | 32.5 - 43.4    | 37.7   | 33.1 - 42.9    | 37.5   | 33.0 - 42.8    |
| PLT x10 <sup>3</sup> /μL                                      | 50   | 34 - 67        | 207  | 170 - 244      | 496  | 432 - 560      |
| Lymph (W-SCR) %   | 25.6   | 21.8 - 29.4    | 29.7   | 26.7 - 32.7    | 34.2   | 30.8 - 37.6    |
| Mixed (W-MCR) %   | 11.9   | 6.5 - 17.3     | 12.3   | 9.2 - 15.4     | 16.5   | 13.7 - 19.3    |
| Neut (W-LCR) %  | 62.5   | 57.5 - 67.5    | 58.0   | 54.5 - 61.5    | 49.3   | 45.4 - 53.2    |
| Lymph (W-SCC) x10 <sup>3</sup> /μL                            | 0.8  | 0.6 - 1.0      | 2.1  | 1.6 - 2.7      | 6.2  | 5.5 - 6.9      |
| Mixed (W-MCC) x10 <sup>3</sup> /μL                            | 0.4  | 0.2 - 0.6      | 0.9  | 0.7 - 1.1      | 3.0  | 2.4 - 3.6      |
| Neut (W-LCC) x10 <sup>3</sup> /μL                             | 2.0  | 1.6 - 2.4      | 4.2  | 3.6 - 4.8      | 8.9  | 7.9 - 10.0     |
| RDW-CV %  | 9.8  | 8.2 - 11.4     | 8.8  | 7.3 - 10.3     | 9.7  | 8.0 - 11.4     |
| RDW-SD fL   | 33.1   | 27.5 - 38.7    | 32.2   | 27.0 - 37.4    | 36.1   | 30.7 - 41.5    |
| MPV fL  | 9.3  | 7.8 - 10.8     | 9.4  | 8.4 - 10.4     | 9.4  | 8.6 - 10.2     |
| W-SMV fL  | 62.9   | 53.5 - 72.3    | 63.2   | 56.2 - 70.2    | 63.4   | 57.1 - 69.7    |
| W-LMV fL  | 197.2  | 181.4 - 213.0  | 197.4  | 181.6 - 213.2  | 198.3  | 183.4 - 213.2  |
| <b>Please note: Remove vial cap before running QC Product</b> |  |                |  |                |  |                |
| <b>SYSMEX pocH-100i</b>                                       |  |                |  |                |  |                |
| WBC x10 <sup>3</sup> /μL                                      | 3.1  | 2.6 - 3.6      | 7.1  | 6.4 - 7.8      | 18.1   | 16.3 - 19.9    |
| RBC x10 <sup>9</sup> /μL                                      | 2.33   | 2.12 - 2.54    | 4.33   | 4.07 - 4.59    | 5.19   | 4.93 - 5.45    |
| HGB g/dL  | 6.4  | 6.1 - 6.7      | 12.8   | 12.2 - 13.4    | 16.3   | 15.6 - 17.0    |
| HCT %   | 18.9   | 17.3 - 20.5    | 36.9   | 34.3 - 39.5    | 46.0   | 42.3 - 49.7    |
| MCV fL  | 81.1   | 68.2 - 96.5    | 85.2   | 74.8 - 97.0    | 88.6   | 77.7 - 100.8   |
| MCH pg  | 27.5   | 24.0 - 31.6    | 29.6   | 26.5 - 33.0    | 31.4   | 28.7 - 34.4    |
| MCHC g/dL   | 33.9   | 29.6 - 38.9    | 34.7   | 30.8 - 39.2    | 35.4   | 31.5 - 40.1    |
| PLT x10 <sup>3</sup> /μL                                      | 50   | 34 - 67        | 197  | 162 - 232      | 463  | 403 - 523      |
| Lymph (W-SCR) %   | 24.5   | 20.8 - 28.2    | 29.2   | 26.3 - 32.1    | 34.3   | 30.9 - 37.7    |
| Mixed (W-MCR) %   | 11.5   | 6.3 - 16.7     | 11.6   | 8.7 - 14.5     | 15.8   | 13.1 - 18.5    |
| Neut (W-LCR) %  | 64.0   | 58.9 - 69.1    | 59.2   | 55.6 - 62.8    | 49.9   | 45.9 - 53.9    |
| Lymph (W-SCC) x10 <sup>3</sup> /μL                            | 0.8  | 0.6 - 1.0      | 2.1  | 1.6 - 2.6      | 6.2  | 5.5 - 6.9      |
| Mixed (W-MCC) x10 <sup>3</sup> /μL                            | 0.4  | 0.2 - 0.6      | 0.8  | 0.6 - 1.0      | 2.9  | 2.3 - 3.5      |
| Neut (W-LCC) x10 <sup>3</sup> /μL                             | 1.9  | 1.5 - 2.3      | 4.2  | 3.6 - 4.8      | 9.0  | 7.9 - 10.1     |
| RDW-CV %  | 14.3   | 12.0 - 16.6    | 13.7   | 11.4 - 16.0    | 14.2   | 11.6 - 16.8    |
| RDW-SD fL   | 41.3   | 34.3 - 48.3    | 41.5   | 34.9 - 48.1    | 44.8   | 38.1 - 51.5    |
| MPV fL  | 10.5   | 8.8 - 12.2     | 10.2   | 9.1 - 11.3     | 10.1   | 9.2 - 11.0     |
| W-SMV fL  | 67.1   | 50.3 - 83.9    | 66.9   | 52.2 - 81.6    | 66.6   | 53.3 - 79.9    |
| W-LMV fL  | 204.9  | 184.4 - 225.4  | 204.6  | 184.1 - 225.1  | 204.7  | 184.2 - 225.2  |

Refer to package insert for Sysmex recommendations on setting QC targets and limits.



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|------------------------------------|--|----------------|--|----------------|--|----------------|
| Lot Number:                        | 91530710                                       |                | 91530711                                       |                | 91530712                                       |                |
| Control:                           | Low Abnormal                                   |                | Normal   |                | High Abnormal                                  |                |
| Parameters                         | Mean   | Expected Range | Mean   | Expected Range | Mean   | Expected Range |
| <b>SYSMEX K-4500, OPEN MODE</b>    |  |                |  |                |  |                |
| WBC x10 <sup>3</sup> /μL           | 3.4  | 3.0 - 3.8      | 7.8  | 7.0 - 8.6      | 19.5   | 17.6 - 21.5    |
| RBC x10 <sup>6</sup> /μL           | 2.28   | 2.14 - 2.42    | 4.32   | 4.13 - 4.51    | 5.16   | 4.90 - 5.42    |
| HGB g/dL                           | 6.4  | 6.1 - 6.7      | 12.9   | 12.4 - 13.4    | 16.2   | 15.6 - 16.8    |
| HCT %                              | 17.5   | 16.1 - 18.9    | 35.0   | 32.6 - 37.5    | 43.8   | 40.7 - 46.9    |
| MCV fL                             | 76.8   | 66.6 - 88.2    | 81.0   | 72.1 - 90.8    | 84.9   | 75.2 - 95.6    |
| MCH pg                             | 28.1   | 25.2 - 31.3    | 29.9   | 27.6 - 32.4    | 31.4   | 28.7 - 34.4    |
| MCHC g/dL                          | 36.6   | 32.2 - 41.7    | 36.9   | 33.2 - 41.0    | 37.0   | 33.2 - 41.4    |
| PLT x10 <sup>3</sup> /μL           | 50   | 34 - 66        | 196  | 169 - 223      | 446  | 397 - 495      |
| Lymph (W-SCR) %                    | 25.0   | 22.3 - 27.8    | 29.5   | 26.6 - 32.5    | 33.3   | 30.0 - 36.6    |
| Mixed (W-MCR) %                    | 12.3   | 6.8 - 17.8     | 11.8   | 8.9 - 14.8     | 16.5   | 13.7 - 19.3    |
| Neut (W-LCR) %                     | 62.7   | 58.9 - 66.5    | 58.7   | 55.2 - 62.2    | 50.2   | 47.2 - 53.2    |
| Lymph (W-SCC) x10 <sup>3</sup> /μL | 0.9  | 0.6 - 1.1      | 2.3  | 1.7 - 2.9      | 6.5  | 4.9 - 8.1      |
| Mixed (W-MCC) x10 <sup>3</sup> /μL | 0.4  | 0.0 - 0.8      | 0.9  | 0.6 - 1.2      | 3.2  | 2.6 - 3.8      |
| Neut (W-LCC) x10 <sup>3</sup> /μL  | 2.1  | 1.8 - 2.5      | 4.6  | 4.1 - 5.0      | 9.8  | 9.0 - 10.6     |
| RDW-CV %                           | 10.5   | 8.8 - 12.2     | 9.6  | 8.0 - 11.2     | 10.4   | 8.5 - 12.3     |
| RDW-SD fL                          | 24.3   | 20.2 - 28.4    | 24.3   | 20.4 - 28.2    | 28.6   | 24.3 - 32.9    |
| MPV fL                             | 9.2  | 8.1 - 10.3     | 9.4  | 8.6 - 10.2     | 9.4  | 8.6 - 10.2     |
| W-SMV fL                           | 60.0   | 54.6 - 65.4    | 60.4   | 55.0 - 65.8    | 60.6   | 55.1 - 66.1    |
| W-LMV fL                           | 185.2  | 170.4 - 200.0  | 185.8  | 170.9 - 200.7  | 188.3  | 174.2 - 202.4  |
| <b>SYSMEX K-4500, CLOSED MODE</b>  |  |                |  |                |  |                |
| WBC x10 <sup>3</sup> /μL           | 3.4  | 2.9 - 3.9      | 7.6  | 6.6 - 8.6      | 19.1   | 16.6 - 21.6    |
| RBC x10 <sup>6</sup> /μL           | 2.30   | 2.16 - 2.44    | 4.28   | 4.07 - 4.49    | 5.11   | 4.83 - 5.39    |
| HGB g/dL                           | 6.4  | 6.0 - 6.8      | 12.8   | 12.3 - 13.3    | 16.0   | 15.3 - 16.7    |
| HCT %                              | 17.7   | 16.2 - 19.2    | 34.6   | 32.0 - 37.2    | 43.4   | 40.1 - 46.7    |
| MCV fL                             | 76.9   | 66.6 - 88.7    | 80.9   | 71.2 - 91.5    | 85.0   | 74.5 - 96.6    |
| MCH pg                             | 27.8   | 24.7 - 31.4    | 29.9   | 27.3 - 32.7    | 31.4   | 28.3 - 34.6    |
| MCHC g/dL                          | 36.2   | 31.4 - 41.8    | 36.9   | 33.0 - 41.6    | 37.0   | 32.8 - 41.6    |
| PLT x10 <sup>3</sup> /μL           | 50   | 33 - 68        | 182  | 155 - 209      | 410  | 357 - 463      |
| Lymph (W-SCR) %                    | 25.0   | 21.3 - 28.8    | 29.5   | 25.7 - 33.3    | 33.3   | 29.0 - 37.6    |
| Mixed (W-MCR) %                    | 12.3   | 6.2 - 18.5     | 11.8   | 7.9 - 15.7     | 16.5   | 13.0 - 20.0    |
| Neut (W-LCR) %                     | 62.7   | 56.4 - 69.0    | 58.7   | 52.8 - 64.6    | 50.2   | 45.2 - 55.2    |
| Lymph (W-SCC) x10 <sup>3</sup> /μL | 0.9  | 0.6 - 1.1      | 2.3  | 1.6 - 2.9      | 6.4  | 4.5 - 8.2      |
| Mixed (W-MCC) x10 <sup>3</sup> /μL | 0.4  | 0.0 - 0.8      | 0.9  | 0.4 - 1.4      | 3.2  | 2.4 - 3.9      |
| Neut (W-LCC) x10 <sup>3</sup> /μL  | 2.1  | 1.7 - 2.6      | 4.5  | 3.9 - 5.1      | 9.6  | 8.4 - 10.8     |
| RDW-CV %                           | 10.5   | 8.8 - 12.2     | 9.6  | 8.0 - 11.2     | 10.4   | 8.5 - 12.3     |
| RDW-SD fL                          | 24.3   | 20.2 - 28.4    | 24.3   | 20.4 - 28.2    | 28.6   | 24.3 - 32.9    |
| MPV fL                             | 9.2  | 8.1 - 10.3     | 9.4  | 8.6 - 10.2     | 9.4  | 8.6 - 10.2     |
| W-SMV fL                           | 60.0   | 54.6 - 65.4    | 60.4   | 55.0 - 65.8    | 60.6   | 55.1 - 66.1    |
| W-LMV fL                           | 185.2  | 170.4 - 200.0  | 185.8  | 170.9 - 200.7  | 188.3  | 174.2 - 202.4  |

OPEN

CLOSED

Refer to package insert for Sysmex recommendations on setting QC targets and limits.