



# e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100D™ ANALYZERS IN BLOOD CENTERS

## 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                              |               |
| <b>O<br/>P<br/>E<br/>N</b>  | RBC (10 <sup>12</sup> /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 <sup>9</sup> /L)  | 65             | 50 - 81     | 249   | 224 - 274   | 593   | 546 - 641     |
|                             | 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 <sup>9</sup> /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 <sup>9</sup> /L)  | 1.34                      | 1.07 - 1.61    | 3.39        | 2.89 - 3.90                                 | 8.37        | 7.28 - 9.46                                 |               |
| LYMPH# (10 <sup>9</sup> /L) | 1.14                      | 0.87 - 1.40    | 2.24        | 1.82 - 2.67                                 | 4.59        | 3.81 - 5.37                                 |               |
| MONO# (10 <sup>9</sup> /L)  | 0.26                      | 0.11 - 0.40    | 0.60        | 0.35 - 0.85                                 | 1.46        | 0.87 - 2.04                                 |               |
| EO# (10 <sup>9</sup> /L)    | 0.28                      | 0.17 - 0.39    | 0.71        | 0.43 - 0.98                                 | 1.78        | 1.12 - 2.44                                 |               |
| BASO# (10 <sup>9</sup> /L)  | 1.89                      | 1.55 - 2.23    | 4.75        | 4.13 - 5.36                                 | 11.76       | 10.58 - 12.93                               |               |

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# e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100D™ ANALYZERS IN BLOOD CENTERS

## 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                              |               |
| <b>C<br/>L<br/>O<br/>S<br/>E<br/>D</b> | RBC (10 <sup>12</sup> /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 <sup>9</sup> /L)  | 65             | 50 - 81     | 244   | 220 - 269   | 558   | 513 - 602     |
|  | 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 <sup>9</sup> /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 <sup>9</sup> /L)             | 1.32                      | 1.05 - 1.58    | 3.20        | 2.72 - 3.68                                 | 8.29        | 7.21 - 9.37                                 |               |
| LYMPH# (10 <sup>9</sup> /L)            | 1.09                      | 0.84 - 1.34    | 2.15        | 1.74 - 2.56                                 | 4.45        | 3.69 - 5.21                                 |               |
| MONO# (10 <sup>9</sup> /L)             | 0.25                      | 0.11 - 0.38    | 0.52        | 0.30 - 0.73                                 | 1.38        | 0.83 - 1.94                                 |               |
| EO# (10 <sup>9</sup> /L)               | 0.27                      | 0.16 - 0.37    | 0.66        | 0.40 - 0.91                                 | 1.74        | 1.10 - 2.39                                 |               |
| BASO# (10 <sup>9</sup> /L)             | 1.83                      | 1.50 - 2.16    | 4.51        | 3.92 - 5.09                                 | 11.52       | 10.37 - 12.67                               |               |

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# e-CHECK™

## HEMATOLOGY CONTROL FOR SYSMEX XE-2100C™ and XE-2100DC™ ANALYZERS

For analyzers utilizing the Cell Sheath C, CSC-300A reagent

### 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 <sup>12</sup> /L)   | 2.32   | 2.23 - 2.41     | 4.32   | 4.19 - 4.45                                 | 5.23   | 5.08 - 5.39                                 |  |
| HGB (g/dL)                  | 5.5    | 5.2 - 5.7       | 11.7   | 11.4 - 12.1                                 | 16.4   | 15.9 - 16.9                                 |  |
| HCT (%)                     | 16.0   | 15.1 - 17.0     | 33.2   | 31.5 - 34.8                                 | 45.0   | 42.8 - 47.3                                 |  |
| MCV (fL)                    | 69.0   | 64.8 - 73.1     | 76.8   | 72.2 - 81.4                                 | 86.0   | 81.7 - 90.3                                 |  |
| MCH (pg)                    | 23.5   | 22.3 - 24.7     | 27.1   | 26.0 - 28.2                                 | 31.3   | 30.0 - 32.5                                 |  |
| MCHC (g/dL)                 | 34.1   | 31.3 - 36.8     | 35.3   | 32.8 - 37.8                                 | 36.4   | 33.8 - 38.9                                 |  |
| PLT (10 <sup>9</sup> /L)    | 65     | 50 - 80         | 245    | 221 - 270                                   | 592    | 544 - 639                                   |  |
| RDW-SD (fL)                 | 44.8   | 40.8 - 48.9     | 47.0   | 42.8 - 51.3                                 | 42.7   | 38.8 - 46.5                                 |  |
| RDW-CV (%)                  | 18.2   | 16.7 - 19.6     | 17.1   | 16.1 - 18.1                                 | 14.1   | 13.2 - 14.9                                 |  |
| MPV (fL)                    | 9.4    | 8.1 - 10.6      | 9.5    | 8.8 - 10.3                                  | 9.7    | 9.0 - 10.4                                  |  |
| WBC (10 <sup>9</sup> /L)    | 2.92   | 2.57 - 3.27     | 6.83   | 6.22 - 7.45                                 | 16.05  | 14.77 - 17.34                               |  |
| NEUT%                       | 44.5   | 38.3 - 50.7     | 49.3   | 44.4 - 54.3                                 | 51.4   | 46.2 - 56.5                                 |  |
| LYMPH%                      | 37.7   | 30.9 - 44.4     | 32.0   | 27.2 - 36.8                                 | 28.2   | 24.0 - 32.4                                 |  |
| MONO%                       | 8.6    | 4.0 - 13.3      | 8.5    | 5.2 - 11.8                                  | 9.3    | 5.7 - 12.9                                  |  |
| EO%                         | 9.2    | 5.7 - 12.7      | 10.1   | 6.4 - 13.9                                  | 11.1   | 7.1 - 15.1                                  |  |
| BASO%                       | 62.8   | 55.9 - 69.7     | 68.6   | 63.8 - 73.4                                 | 72.8   | 69.1 - 76.4                                 |  |
| NEUT# (10 <sup>9</sup> /L)  | 1.30   | 1.04 - 1.56     | 3.37   | 2.87 - 3.88                                 | 8.25   | 7.18 - 9.32                                 |  |
| LYMPH# (10 <sup>9</sup> /L) | 1.10   | 0.85 - 1.35     | 2.19   | 1.77 - 2.60                                 | 4.53   | 3.76 - 5.30                                 |  |
| MONO# (10 <sup>9</sup> /L)  | 0.25   | 0.11 - 0.39     | 0.58   | 0.34 - 0.83                                 | 1.49   | 0.90 - 2.09                                 |  |
| EO# (10 <sup>9</sup> /L)    | 0.27   | 0.16 - 0.38     | 0.69   | 0.42 - 0.96                                 | 1.79   | 1.12 - 2.45                                 |  |
| BASO# (10 <sup>9</sup> /L)  | 1.83   | 1.50 - 2.16     | 4.69   | 4.08 - 5.30                                 | 11.68  | 10.52 - 12.85                               |  |
| NRBC# (10 <sup>9</sup> /L)  | 2.94   | 2.44 - 3.44     | 6.85   | 5.96 - 7.74                                 | 17.20  | 15.14 - 19.27                               |  |
| NRBC% (/100 WBC)            | 100.0  | N/A - N/A       | 100.0  | N/A - N/A                                   | 100.0  | N/A - N/A                                   |  |
| PLT-O (10 <sup>9</sup> /L)  | 64     | 42 - 86         | 231    | 192 - 270                                   | 552    | 469 - 635                                   |  |
| RET# (10 <sup>12</sup> /L)  | 0.1169 | 0.0806 - 0.1531 | 0.0922 | 0.0646 - 0.1199                             | 0.0523 | 0.0376 - 0.0669                             |  |
| RET%                        | 5.03   | 3.62 - 6.44     | 2.13   | 1.56 - 2.71                                 | 1.00   | 0.65 - 1.35                                 |  |
| IRF (%)                     | 50.1   | 8.5 - 91.6      | 43.2   | 3.5 - 82.9                                  | 33.4   | 1.7 - 65.1                                  |  |
| <sup>a</sup> IG (#)         | 0.30   | 0.23 - 0.38     | 0.78   | 0.62 - 0.94                                 | 1.92   | 1.53 - 2.30                                 |  |
| <sup>a</sup> IG (%)         | 10.31  | 8.14 - 12.48    | 11.41  | 9.24 - 13.58                                | 11.95  | 9.68 - 14.21                                |  |
| <sup>c</sup> RET-He (pg)    | 23.2   | 19.9 - 26.4     | 23.7   | 20.4 - 27.1                                 | 25.0   | 21.0 - 28.9                                 |  |
| <sup>d</sup> IPF (%)        | 21.6   | 17.5 - 25.7     | 21.7   | 17.6 - 25.8                                 | 22.4   | 18.1 - 26.6                                 |  |

<sup>a</sup>IG values are only available with the Sysmex XE-Series IG Master software.  
<sup>c</sup>RET-He values are only available with the Sysmex XE-Series RET Master software.

<sup>b</sup>HPC values are only available with the Sysmex XE-Series HPC Master software.  
<sup>d</sup>IPF values are only available with the Sysmex XE-Series IPF Master software.



# e-CHECK™

## HEMATOLOGY CONTROL FOR SYSMEX XE-2100C™ and XE-2100DC™ ANALYZERS

For analyzers utilizing the Cell Sheath C, CSC-300A reagent

### 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 <sup>12</sup> /L)   | 2.32   | 2.23 - 2.41     | 4.32   | 4.19 - 4.45                                 | 5.18   | 5.03 - 5.34                                 |  |
| HGB (g/dL)                  | 5.5    | 5.3 - 5.7       | 11.7   | 11.3 - 12.0                                 | 16.2   | 15.7 - 16.7                                 |  |
| HCT (%)                     | 16.0   | 15.1 - 17.0     | 33.2   | 31.5 - 34.8                                 | 45.0   | 42.8 - 47.3                                 |  |
| MCV (fL)                    | 69.0   | 64.8 - 73.1     | 76.8   | 72.2 - 81.4                                 | 86.9   | 82.5 - 91.2                                 |  |
| MCH (pg)                    | 23.6   | 22.4 - 24.8     | 27.0   | 25.9 - 28.1                                 | 31.3   | 30.0 - 32.5                                 |  |
| MCHC (g/dL)                 | 34.2   | 31.5 - 37.0     | 35.1   | 32.7 - 37.6                                 | 36.0   | 33.5 - 38.5                                 |  |
| PLT (10 <sup>9</sup> /L)    | 65     | 50 - 80         | 240    | 216 - 265                                   | 556    | 512 - 601                                   |  |
| RDW-SD (fL)                 | 44.4   | 40.4 - 48.4     | 46.6   | 42.4 - 50.8                                 | 42.7   | 38.8 - 46.5                                 |  |
| RDW-CV (%)                  | 18.0   | 16.5 - 19.4     | 16.9   | 15.9 - 17.9                                 | 14.1   | 13.2 - 14.9                                 |  |
| MPV (fL)                    | 9.4    | 8.1 - 10.6      | 9.5    | 8.8 - 10.3                                  | 9.7    | 9.0 - 10.4                                  |  |
| WBC (10 <sup>9</sup> /L)    | 2.83   | 2.49 - 3.17     | 6.42   | 5.84 - 7.00                                 | 15.73  | 14.47 - 16.99                               |  |
| NEUT%                       | 45.1   | 38.8 - 51.4     | 49.1   | 44.2 - 54.0                                 | 51.9   | 46.7 - 57.1                                 |  |
| LYMPH%                      | 37.3   | 30.6 - 44.0     | 32.3   | 27.5 - 37.2                                 | 27.9   | 23.7 - 32.1                                 |  |
| MONO%                       | 8.5    | 3.9 - 13.1      | 8.5    | 5.2 - 11.8                                  | 9.0    | 5.5 - 12.5                                  |  |
| EO%                         | 9.1    | 5.7 - 12.6      | 10.0   | 6.3 - 13.7                                  | 11.1   | 7.1 - 15.1                                  |  |
| BASO%                       | 62.8   | 55.9 - 69.7     | 69.3   | 64.5 - 74.2                                 | 72.8   | 69.1 - 76.4                                 |  |
| NEUT# (10 <sup>9</sup> /L)  | 1.27   | 1.02 - 1.53     | 3.16   | 2.68 - 3.63                                 | 8.17   | 7.11 - 9.23                                 |  |
| LYMPH# (10 <sup>9</sup> /L) | 1.05   | 0.81 - 1.30     | 2.08   | 1.68 - 2.47                                 | 4.39   | 3.65 - 5.14                                 |  |
| MONO# (10 <sup>9</sup> /L)  | 0.24   | 0.11 - 0.38     | 0.55   | 0.32 - 0.78                                 | 1.42   | 0.85 - 1.99                                 |  |
| EO# (10 <sup>9</sup> /L)    | 0.26   | 0.16 - 0.36     | 0.64   | 0.39 - 0.89                                 | 1.75   | 1.10 - 2.40                                 |  |
| BASO# (10 <sup>9</sup> /L)  | 1.78   | 1.46 - 2.09     | 4.45   | 3.87 - 5.03                                 | 11.45  | 10.30 - 12.59                               |  |
| NRBC# (10 <sup>9</sup> /L)  | 2.91   | 2.42 - 3.41     | 6.57   | 5.72 - 7.43                                 | 17.03  | 14.99 - 19.07                               |  |
| NRBC% (/100 WBC)            | 100.0  | N/A - N/A       | 100.0  | N/A - N/A                                   | 100.0  | N/A - N/A                                   |  |
| PLT-O (10 <sup>9</sup> /L)  | 64     | 43 - 86         | 231    | 192 - 270                                   | 535    | 455 - 616                                   |  |
| RET# (10 <sup>12</sup> /L)  | 0.1145 | 0.0790 - 0.1500 | 0.0913 | 0.0639 - 0.1187                             | 0.0515 | 0.0371 - 0.0659                             |  |
| RET%                        | 4.93   | 3.55 - 6.31     | 2.11   | 1.54 - 2.68                                 | 0.99   | 0.65 - 1.34                                 |  |
| IRF (%)                     | 47.5   | 8.1 - 87.0      | 43.2   | 3.5 - 82.9                                  | 34.7   | 1.7 - 67.7                                  |  |
| <sup>a</sup> IG (#)         | 0.29   | 0.22 - 0.36     | 0.73   | 0.58 - 0.89                                 | 1.88   | 1.50 - 2.26                                 |  |
| <sup>a</sup> IG (%)         | 10.31  | 8.14 - 12.48    | 11.41  | 9.24 - 13.58                                | 11.95  | 9.68 - 14.21                                |  |
| <sup>c</sup> RET-He (pg)    | 22.7   | 19.5 - 25.9     | 23.3   | 20.0 - 26.5                                 | 24.5   | 20.5 - 28.4                                 |  |
| <sup>d</sup> IPF (%)        | 21.6   | 17.5 - 25.7     | 21.7   | 17.6 - 25.8                                 | 22.4   | 18.1 - 26.6                                 |  |

<sup>a</sup>IG values are only available with the Sysmex XE-Series IG Master software.  
<sup>c</sup>RET-He values are only available with the Sysmex XE-Series RET Master software.

<sup>b</sup>HPC values are only available with the Sysmex XE-Series HPC Master software.  
<sup>d</sup>IPF values are only available with the Sysmex XE-Series IPF Master software.