

< e-CHECK<sup>®</sup>(XE) ASSAY SHEET >

For XE-Series

Lot No. 90760810

Exp. date 2019-06-09

L1 : Level 1

| MODE   |        | RBC<br>10 <sup>6</sup> /μL | HGB  |        | HCT<br>% | MCV<br>fL | MCH  |      | MCHC |        | PLT<br>10 <sup>3</sup> /μL |
|--------|--------|----------------------------|------|--------|----------|-----------|------|------|------|--------|----------------------------|
|        |        |                            | g/dL | mmol/L |          |           | pg   | fmol | g/dL | mmol/L |                            |
| Open   | TARGET | 2.30                       | 5.7  | 3.5    | 17.4     | 75.8      | 24.8 | 1.52 | 32.8 | 20.1   | 56                         |
|        | LIMIT  | 0.12                       | 0.2  | 0.1    | 1.0      | 3.8       | 1.2  | 0.08 | 1.6  | 1.0    | 22                         |
| Closed | TARGET | 2.32                       | 5.8  | 3.6    | 17.6     | 75.7      | 25.0 | 1.55 | 33.0 | 20.5   | 55                         |
|        | LIMIT  | 0.12                       | 0.2  | 0.1    | 1.1      | 3.8       | 1.3  | 0.08 | 1.7  | 1.0    | 22                         |

| MODE   |        | RDW-SD<br>fL | RDW-CV<br>% | PDW<br>fL | PCT<br>% | MPV<br>fL | P-LCR<br>% |
|--------|--------|--------------|-------------|-----------|----------|-----------|------------|
|        |        |              |             |           |          |           |            |
| Open   | TARGET | 45.6         | 16.6        | 8.4       | 0.05     | 9.4       | 15.4       |
|        | LIMIT  | 4.6          | 1.7         | 1.7       | 0.03     | 0.8       | 13.1       |
| Closed | TARGET | 45.3         | 16.5        | 8.6       | 0.05     | 9.5       | 16.1       |
|        | LIMIT  | 4.5          | 1.7         | 1.7       | 0.03     | 0.8       | 13.7       |

| MODE   |        | WBC<br>10 <sup>3</sup> /μL | WBC-D <sup>*1</sup><br>10 <sup>3</sup> /μL | NEUT#<br>10 <sup>3</sup> /μL | LYMPH#<br>10 <sup>3</sup> /μL | MONO#<br>10 <sup>3</sup> /μL | EO#<br>10 <sup>3</sup> /μL | BASO#<br>10 <sup>3</sup> /μL | NRBC#<br>10 <sup>3</sup> /μL | IM#  |
|--------|--------|----------------------------|--------------------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|------|
|        |        |                            |                                            |                              |                               |                              |                            |                              |                              |      |
| Open   | TARGET | 3.08                       | 2.82                                       | 1.33                         | 1.14                          | 0.33                         | 0.28                       | 1.91                         | 0.15                         | 1493 |
|        | LIMIT  | 0.31                       | 0.28                                       | 0.27                         | 0.46                          | 0.26                         | 0.14                       | 1.48                         | 0.08                         | 373  |
| Closed | TARGET | 2.96                       | 2.70                                       | 1.29                         | 1.07                          | 0.32                         | 0.28                       | 1.85                         | 0.15                         | 1362 |
|        | LIMIT  | 0.30                       | 0.27                                       | 0.26                         | 0.43                          | 0.26                         | 0.14                       | 1.41                         | 0.08                         | 341  |

| MODE   |        | PLT-O<br>10 <sup>3</sup> /μL | RET#<br>10 <sup>6</sup> /μL | RET%<br>% | RBC-O<br>10 <sup>6</sup> /μL | HFR<br>% | MFR<br>% | LFR<br>% | IRF<br>% |
|--------|--------|------------------------------|-----------------------------|-----------|------------------------------|----------|----------|----------|----------|
|        |        |                              |                             |           |                              |          |          |          |          |
| Open   | TARGET | 65                           | 0.1472                      | 6.40      | 2.22                         | 8.1      | 30.6     | 61.3     | 38.7     |
|        | LIMIT  | 29                           | 0.0442                      | 1.28      | 0.22                         | 5.0      | 13.0     | 15.0     | 18.0     |
| Closed | TARGET | 61                           | 0.1491                      | 6.43      | 2.18                         | 8.2      | 31.1     | 60.7     | 39.3     |
|        | LIMIT  | 27                           | 0.0447                      | 1.29      | 0.22                         | 5.0      | 13.0     | 15.0     | 18.0     |

| MODE   |        | IG# <sup>*2</sup><br>10 <sup>3</sup> /μL | HPC# <sup>*3</sup><br>10 <sup>3</sup> /μL | RET-He <sup>*4</sup> |      | IPF <sup>*5</sup><br>% |
|--------|--------|------------------------------------------|-------------------------------------------|----------------------|------|------------------------|
|        |        |                                          |                                           | pg                   | fmol |                        |
| Open   | TARGET | 0.32                                     | 0.014                                     | 23.7                 | 1.47 | 22.1                   |
|        | LIMIT  | 0.10                                     | 0.004                                     | 2.4                  | 0.15 | 5.0                    |
| Closed | TARGET | 0.30                                     | 0.013                                     | 23.7                 | 1.47 | 21.4                   |
|        | LIMIT  | 0.09                                     | 0.003                                     | 2.4                  | 0.15 | 5.0                    |

\*1 : Available only on XE-5000.

\*2 : Available only on XE-5000, or XE-2100 installed the optional software, XE IG master.

\*3 : Available only on XE-5000, or XE-2100 installed the optional software, XE HPC master.

\*4 : Available only on XE-5000, or XE-2100 installed the optional software, XE RET master.

\*5 : Available only on XE-5000, or XE-2100 installed the optional software, XE IPF master.

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Please make sure the lot number before reading the data from the assay CD.

Do not leave control blood in the room temperature over an hour.

Please store it in a refrigerator (2-8 °C) immediately after use.

U.S. Patents 5,432,089; 6,200,500; 6,221,668; 6,399,388; 6,403,377; 6,406,915

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< e-CHECK<sup>®</sup>(XE) ASSAY SHEET >

For XE-Series

Lot No. 90770811

Exp. date 2019-06-09

L2 : Level 2

| MODE   |        | RBC<br>10 <sup>6</sup> /μL | HGB  |        | HCT<br>% | MCV<br>fL | MCH  |      | MCHC |        | PLT<br>10 <sup>3</sup> /μL |
|--------|--------|----------------------------|------|--------|----------|-----------|------|------|------|--------|----------------------------|
|        |        |                            | g/dL | mmol/L |          |           | pg   | fmol | g/dL | mmol/L |                            |
| Open   | TARGET | 4.34                       | 12.0 | 7.4    | 35.0     | 80.6      | 27.6 | 1.71 | 34.3 | 21.1   | 226                        |
|        | LIMIT  | 0.22                       | 0.4  | 0.2    | 1.8      | 3.2       | 1.4  | 0.09 | 1.7  | 1.1    | 25                         |
| Closed | TARGET | 4.40                       | 12.1 | 7.5    | 35.5     | 80.6      | 27.5 | 1.70 | 34.1 | 21.1   | 224                        |
|        | LIMIT  | 0.22                       | 0.4  | 0.2    | 1.8      | 3.2       | 1.4  | 0.09 | 1.7  | 1.1    | 25                         |

| MODE   |        | RDW-SD<br>fL | RDW-CV<br>% | PDW<br>fL | PCT<br>% | MPV<br>fL | P-LCR<br>% |
|--------|--------|--------------|-------------|-----------|----------|-----------|------------|
|        |        |              |             |           |          |           |            |
| Open   | TARGET | 46.5         | 16.0        | 9.3       | 0.22     | 9.7       | 19.5       |
|        | LIMIT  | 4.7          | 1.6         | 0.8       | 0.07     | 0.6       | 9.8        |
| Closed | TARGET | 46.1         | 15.9        | 9.3       | 0.22     | 9.7       | 19.4       |
|        | LIMIT  | 4.6          | 1.6         | 0.8       | 0.07     | 0.6       | 9.7        |

| MODE   |        | WBC<br>10 <sup>3</sup> /μL | WBC-D <sup>*1</sup><br>10 <sup>3</sup> /μL | NEUT#<br>10 <sup>3</sup> /μL | LYMPH#<br>10 <sup>3</sup> /μL | MONO#<br>10 <sup>3</sup> /μL | EO#<br>10 <sup>3</sup> /μL | BASO#<br>10 <sup>3</sup> /μL | NRBC#<br>10 <sup>3</sup> /μL | IM#  |
|--------|--------|----------------------------|--------------------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|------|
|        |        |                            |                                            |                              |                               |                              |                            |                              |                              |      |
| Open   | TARGET | 7.53                       | 6.80                                       | 3.56                         | 2.42                          | 0.80                         | 0.75                       | 5.04                         | 0.41                         | 3974 |
|        | LIMIT  | 0.45                       | 0.41                                       | 0.53                         | 0.48                          | 0.48                         | 0.38                       | 3.93                         | 0.21                         | 795  |
| Closed | TARGET | 7.02                       | 6.46                                       | 3.32                         | 2.25                          | 0.75                         | 0.70                       | 4.75                         | 0.39                         | 3846 |
|        | LIMIT  | 0.42                       | 0.39                                       | 0.50                         | 0.45                          | 0.45                         | 0.35                       | 3.71                         | 0.20                         | 769  |

| MODE   |        | PLT-O<br>10 <sup>3</sup> /μL | RET#<br>10 <sup>6</sup> /μL | RET%<br>% | RBC-O<br>10 <sup>6</sup> /μL | HFR<br>% | MFR<br>% | LFR<br>% | IRF<br>% |
|--------|--------|------------------------------|-----------------------------|-----------|------------------------------|----------|----------|----------|----------|
|        |        |                              |                             |           |                              |          |          |          |          |
| Open   | TARGET | 233                          | 0.0949                      | 2.19      | 4.21                         | 7.0      | 27.9     | 65.1     | 34.9     |
|        | LIMIT  | 35                           | 0.0285                      | 0.44      | 0.42                         | 5.0      | 13.0     | 15.0     | 18.0     |
| Closed | TARGET | 231                          | 0.0965                      | 2.19      | 4.26                         | 6.8      | 26.7     | 66.5     | 33.5     |
|        | LIMIT  | 35                           | 0.0290                      | 0.44      | 0.43                         | 5.0      | 13.0     | 15.0     | 18.0     |

| MODE   |        | IG# <sup>*2</sup><br>10 <sup>3</sup> /μL | HPC# <sup>*3</sup><br>10 <sup>3</sup> /μL | RET-He <sup>*4</sup> |      | IPF <sup>*5</sup><br>% |
|--------|--------|------------------------------------------|-------------------------------------------|----------------------|------|------------------------|
|        |        |                                          |                                           | pg                   | fmol |                        |
| Open   | TARGET | 0.85                                     | 0.039                                     | 24.5                 | 1.52 | 21.8                   |
|        | LIMIT  | 0.26                                     | 0.008                                     | 2.5                  | 0.15 | 5.0                    |
| Closed | TARGET | 0.79                                     | 0.037                                     | 24.5                 | 1.52 | 21.7                   |
|        | LIMIT  | 0.24                                     | 0.007                                     | 2.5                  | 0.15 | 5.0                    |

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For XE-Series

Lot No. 90760812

Exp. date 2019-06-09

L3 : Level 3

| MODE   |        | RBC<br>10 <sup>6</sup> /μL | HGB  |        | HCT<br>% | MCV<br>fL | MCH  |      | MCHC |        | PLT<br>10 <sup>3</sup> /μL |
|--------|--------|----------------------------|------|--------|----------|-----------|------|------|------|--------|----------------------------|
|        |        |                            | g/dL | mmol/L |          |           | pg   | fmol | g/dL | mmol/L |                            |
| Open   | TARGET | 5.23                       | 16.5 | 10.2   | 46.8     | 89.5      | 31.5 | 1.95 | 35.3 | 21.8   | 538                        |
|        | LIMIT  | 0.26                       | 0.5  | 0.3    | 2.3      | 3.6       | 1.6  | 0.10 | 1.8  | 1.1    | 48                         |
| Closed | TARGET | 5.23                       | 16.5 | 10.2   | 46.8     | 89.5      | 31.5 | 1.95 | 35.3 | 21.8   | 509                        |
|        | LIMIT  | 0.26                       | 0.5  | 0.3    | 2.3      | 3.6       | 1.6  | 0.10 | 1.8  | 1.1    | 46                         |

| MODE   |        | RDW-SD<br>fL | RDW-CV<br>% | PDW<br>fL | PCT<br>% | MPV<br>fL | P-LCR<br>% |
|--------|--------|--------------|-------------|-----------|----------|-----------|------------|
|        |        |              |             |           |          |           |            |
| Open   | TARGET | 45.0         | 14.0        | 9.8       | 0.53     | 9.9       | 21.5       |
|        | LIMIT  | 4.5          | 1.4         | 0.9       | 0.13     | 0.6       | 10.8       |
| Closed | TARGET | 44.8         | 13.9        | 9.7       | 0.50     | 9.9       | 21.2       |
|        | LIMIT  | 4.5          | 1.4         | 0.9       | 0.13     | 0.6       | 10.6       |

| MODE   |        | WBC<br>10 <sup>3</sup> /μL | WBC-D <sup>*1</sup><br>10 <sup>3</sup> /μL | NEUT#<br>10 <sup>3</sup> /μL | LYMPH#<br>10 <sup>3</sup> /μL | MONO#<br>10 <sup>3</sup> /μL | EO#<br>10 <sup>3</sup> /μL | BASO#<br>10 <sup>3</sup> /μL | NRBC#<br>10 <sup>3</sup> /μL | IM#   |
|--------|--------|----------------------------|--------------------------------------------|------------------------------|-------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|-------|
|        |        |                            |                                            |                              |                               |                              |                            |                              |                              |       |
| Open   | TARGET | 17.91                      | 16.19                                      | 9.16                         | 5.02                          | 1.85                         | 1.88                       | 12.51                        | 1.13                         | 11392 |
|        | LIMIT  | 1.07                       | 0.97                                       | 1.37                         | 1.00                          | 0.93                         | 0.94                       | 9.76                         | 0.57                         | 2278  |
| Closed | TARGET | 17.45                      | 15.47                                      | 8.88                         | 4.86                          | 1.86                         | 1.85                       | 12.35                        | 1.14                         | 10818 |
|        | LIMIT  | 1.05                       | 0.93                                       | 1.33                         | 0.97                          | 0.93                         | 0.93                       | 9.63                         | 0.57                         | 2164  |

| MODE   |        | PLT-O<br>10 <sup>3</sup> /μL | RET#<br>10 <sup>6</sup> /μL | RET%<br>% | RBC-O<br>10 <sup>6</sup> /μL | HFR<br>% | MFR<br>% | LFR<br>% | IRF<br>% |
|--------|--------|------------------------------|-----------------------------|-----------|------------------------------|----------|----------|----------|----------|
|        |        |                              |                             |           |                              |          |          |          |          |
| Open   | TARGET | 570                          | 0.0521                      | 1.00      | 5.10                         | 4.9      | 20.7     | 74.4     | 25.6     |
|        | LIMIT  | 86                           | 0.0156                      | 0.20      | 0.51                         | 5.0      | 13.0     | 15.0     | 18.0     |
| Closed | TARGET | 561                          | 0.0539                      | 1.03      | 5.19                         | 5.5      | 22.0     | 72.5     | 27.5     |
|        | LIMIT  | 84                           | 0.0162                      | 0.21      | 0.52                         | 5.0      | 13.0     | 15.0     | 18.0     |

| MODE   |        | IG# <sup>*2</sup><br>10 <sup>3</sup> /μL | HPC# <sup>*3</sup><br>10 <sup>3</sup> /μL | RET-He <sup>*4</sup> |      | IPF <sup>*5</sup><br>% |
|--------|--------|------------------------------------------|-------------------------------------------|----------------------|------|------------------------|
|        |        |                                          |                                           | pg                   | fmol |                        |
| Open   | TARGET | 2.16                                     | 0.109                                     | 25.8                 | 1.60 | 21.9                   |
|        | LIMIT  | 0.54                                     | 0.022                                     | 2.6                  | 0.16 | 5.0                    |
| Closed | TARGET | 2.08                                     | 0.103                                     | 25.8                 | 1.60 | 21.6                   |
|        | LIMIT  | 0.52                                     | 0.021                                     | 2.6                  | 0.16 | 5.0                    |

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