# BC-3D

## HEMATOLOGY CONTROLS

**CONTROL**

**LOT B0219**

**2019-05-05**

ASSAY VALUES AND EXPECTED RANGES

| Instrument | Parameter | Low<br>LOT B0219L | Normal<br>LOT B0219N | High<br>LOT B0219H |
|---|---|---|---|---|
| **BC-3200, BC-3000CT** | WBC × $10^3$/µL | 2.1 ± 0.5 | 8.1 ± 1.0 | 21.8 ± 2.5 |
| | RBC × $10^6$/µL | 2.36 ± 0.18 | 4.78 ± 0.24 | 5.76 ± 0.30 |
| | HGB g/dL | 6.0 ± 0.4 | 13.9 ± 0.6 | 18.7 ± 0.8 |
| | HCT % | 17.8 ± 1.5 | 41.1 ± 2.0 | 55.0 ± 2.4 |
| | MCV fL | 75.5 ± 5.0 | 86.0 ± 5.0 | 95.5 ± 5.0 |
| | MCH pg | 25.4 ± 2.5 | 29.1 ± 2.5 | 32.5 ± 2.5 |
| | MCHC g/dL | 33.7 ± 3.0 | 33.8 ± 3.0 | 34.0 ± 3.0 |
| | RDW-CV | 14.5 ± 3.0 | 13.7 ± 3.0 | 13.2 ± 3.0 |
| | RDW-SD | 37.0 ± 6.0 | 38.0 ± 6.0 | 41.0 ± 8.0 |
| | PLT × $10^3$/µL | 76 ± 20 | 258 ± 40 | 505 ± 60 |
| | MPV fL | 8.6 ± 3.0 | 8.3 ± 3.0 | 8.0 ± 3.0 |
| | Lymph % | 59.0 ± 12.0 | 29.5 ± 8.0 | 13.0 ± 6.0 |
| | Mid % | 8.0 ± 7.0 | 8.0 ± 7.0 | 6.5 ± 6.0 |
| | Gran % | 33.0 ± 10.0 | 62.5 ± 8.0 | 80.5 ± 8.0 |
| | Lymph × $10^3$/µL | 1.2 ± 0.3 | 2.4 ± 0.7 | 2.8 ± 1.3 |
| | Mid × $10^3$/µL | 0.2 ± 0.2 | 0.6 ± 0.6 | 1.4 ± 1.3 |
| | Gran × $10^3$/µL | 0.7 ± 0.3 | 5.1 ± 0.7 | 17.5 ± 1.8 |
| **BC-3000 Plus, BC-2900, BC-1800** | WBC × $10^3$/µL | 2.1 ± 0.5 | 8.0 ± 1.0 | 21.1 ± 2.5 |
| | RBC × $10^6$/µL | 2.39 ± 0.18 | 4.82 ± 0.24 | 5.77 ± 0.30 |
| | HGB g/dL | 5.9 ± 0.4 | 13.8 ± 0.6 | 18.5 ± 0.8 |
| | HCT % | 17.8 ± 1.5 | 41.2 ± 2.0 | 55.1 ± 2.4 |
| | MCV fL | 74.5 ± 5.0 | 85.5 ± 5.0 | 95.5 ± 5.0 |
| | MCH pg | 24.7 ± 2.5 | 28.6 ± 2.5 | 32.1 ± 2.5 |
| | MCHC g/dL | 33.1 ± 3.0 | 33.5 ± 3.0 | 33.6 ± 3.0 |
| | RDW-CV | 16.0 ± 3.0 | 15.3 ± 3.0 | 14.7 ± 3.0 |
| | RDW-SD | 35.5 ± 6.0 | 38.5 ± 6.0 | 41.0 ± 8.0 |
| | PLT × $10^3$/µL | 78 ± 20 | 260 ± 40 | 500 ± 60 |
| | MPV fL | 8.5 ± 3.0 | 8.2 ± 3.0 | 8.1 ± 3.0 |
| | PCT % * | 0.070 ± 0.050 | 0.210 ± 0.100 | 0.400 ± 0.200 |
| | PDW * | 16.9 ± 3.0 | 16.3 ± 3.0 | 16.3 ± 3.0 |
| | Lymph % | 58.5 ± 12.0 | 30.0 ± 8.0 | 13.0 ± 6.0 |
| | Mid % | 8.0 ± 7.0 | 8.0 ± 7.0 | 7.0 ± 6.0 |
| | Gran % | 33.5 ± 10.0 | 62.0 ± 8.0 | 80.0 ± 8.0 |
| | Lymph × $10^3$/µL | 1.2 ± 0.3 | 2.4 ± 0.7 | 2.7 ± 1.3 |
| | Mid × $10^3$/µL | 0.2 ± 0.2 | 0.6 ± 0.6 | 1.5 ± 1.3 |
| | Gran × $10^3$/µL | 0.7 ± 0.3 | 5.0 ± 0.7 | 16.9 ± 1.7 |

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## HEMATOLOGY CONTROLS

**CONTROL**

**LOT B0219**

**2019-05-05**

ASSAY VALUES AND EXPECTED RANGES

| Instrument | Parameter | Low<br>LOT B0219L | Normal<br>LOT B0219N | High<br>LOT B0219H | ++ |
|---|---|---|---|---|---|
| **BC-2800, BC-2600** | WBC × $10^3$/µL | 2.0 ± 0.5 | 8.1 ± 1.0 | 21.4 ± 2.5 | |
| **(Software version 2.0 or higher)** | RBC × $10^6$/µL | 2.28 ± 0.18 | 4.67 ± 0.24 | 5.59 ± 0.30 | |
| | HGB g/dL | 5.9 ± 0.4 | 13.8 ± 0.6 | 18.8 ± 0.8 | |
| | HCT % | 16.9 ± 1.5 | 39.2 ± 2.0 | 52.3 ± 2.4 | |
| | MCV fL | 74.0 ± 5.0 | 84.0 ± 5.0 | 93.5 ± 5.0 | |
| | MCH pg | 25.9 ± 2.5 | 29.6 ± 2.5 | 33.6 ± 2.5 | |
| | MCHC g/dL | 35.0 ± 3.0 | 35.2 ± 3.0 | 36.0 ± 3.0 | |
| | RDW-CV | 16.5 ± 3.0 | 16.0 ± 3.0 | 15.0 ± 3.0 | |
| | RDW-SD | 41.5 ± 6.0 | 44.5 ± 6.0 | 47.0 ± 8.0 | |
| | PLT × $10^3$/µL | 63 ± 20 | 260 ± 40 | 510 ± 60 | |
| | MPV fL | 9.1 ± 3.0 | 9.6 ± 3.0 | 9.6 ± 3.0 | |
| | PCT % * | 0.060 ± 0.050 | 0.250 ± 0.100 | 0.490 ± 0.200 | |
| | PDW * | 14.6 ± 3.0 | 14.9 ± 3.0 | 14.9 ± 3.0 | |
| | Lymph % | 61.5 ± 12.0 | 33.0 ± 8.0 | 14.5 ± 7.0 | |
| | Mid % | 6.5 ± 6.0 | 6.0 ± 5.0 | 5.0 ± 4.0 | |
| | Gran % | 32.0 ± 10.0 | 61.0 ± 9.0 | 80.5 ± 8.0 | |
| | Lymph × $10^3$/µL | 1.2 ± 0.3 | 2.7 ± 0.7 | 3.1 ± 1.5 | |
| | Mid × $10^3$/µL | 0.2 ± 0.2 | 0.5 ± 0.5 | 1.1 ± 0.9 | |
| | Gran × $10^3$/µL | 0.6 ± 0.3 | 4.9 ± 0.8 | 17.2 ± 1.8 | |
| **BC-2300, BC-2100** | WBC × $10^3$/µL | 2.0 ± 0.5 | 7.8 ± 1.0 | 21.1 ± 2.5 | |
| | RBC × $10^6$/µL | 2.32 ± 0.18 | 4.63 ± 0.24 | 5.51 ± 0.30 | |
| | HGB g/dL | 6.0 ± 0.4 | 13.6 ± 0.6 | 18.2 ± 0.8 | |
| | HCT % | 16.9 ± 1.5 | 38.2 ± 2.0 | 50.7 ± 2.4 | |
| | MCV fL | 73.0 ± 5.0 | 82.5 ± 5.0 | 92.0 ± 5.0 | |
| | MCH pg | 25.9 ± 2.5 | 29.4 ± 2.5 | 33.0 ± 2.5 | |
| | MCHC g/dL | 35.4 ± 3.0 | 35.6 ± 3.0 | 35.9 ± 3.0 | |
| | RDW-CV | 14.5 ± 3.0 | 14.0 ± 3.0 | 13.0 ± 3.0 | |
| | RDW-SD | 34.0 ± 8.0 | 37.0 ± 8.0 | 39.0 ± 8.0 | |
| | PLT × $10^3$/µL | 60 ± 20 | 254 ± 40 | 540 ± 60 | |
| | MPV fL | 9.8 ± 3.0 | 10.4 ± 3.0 | 10.2 ± 3.0 | |
| | PCT % * | 0.060 ± 0.050 | 0.260 ± 0.100 | 0.530 ± 0.200 | |
| | PDW * | 15.0 ± 3.0 | 15.2 ± 3.0 | 15.1 ± 3.0 | |
| | Lymph % | 60.0 ± 12.0 | 32.0 ± 8.0 | 14.5 ± 7.0 | |
| | Mid % | 7.0 ± 6.0 | 7.0 ± 6.0 | 6.5 ± 6.0 | |
| | Gran % | 33.0 ± 10.0 | 61.0 ± 9.0 | 79.0 ± 8.0 | |
| | Lymph × $10^3$/µL | 1.2 ± 0.3 | 2.5 ± 0.7 | 3.1 ± 1.5 | |
| | Mid × $10^3$/µL | 0.2 ± 0.2 | 0.5 ± 0.5 | 1.4 ± 1.3 | |
| | Gran × $10^3$/µL | 0.7 ± 0.3 | 4.8 ± 0.8 | 16.7 ± 1.7 | |

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## HEMATOLOGY CONTROLS

**CONTROL**

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**2019-05-05**

ASSAY VALUES AND EXPECTED RANGES

| Instrument | Parameter | Low<br>LOT B0219L | Normal<br>LOT B0219N | High<br>LOT B0219H | +++ |
|---|---|---|---|---|---|
| **BC-20s, BC-21s** | WBC × $10^3$/µL | 2.1 ± 0.5 | 7.6 ± 1.0 | 20.7 ± 2.5 | |
| **BC-30, BC-30s, BC-30e,** | RBC × $10^6$/µL | 2.31 ± 0.18 | 4.65 ± 0.24 | 5.61 ± 0.30 | |
| **BC-31, BC-31s** | HGB g/dL | 6.0 ± 0.4 | 13.9 ± 0.6 | 18.7 ± 0.8 | |
| | HCT % | 17.2 ± 1.5 | 39.3 ± 2.0 | 52.2 ± 2.4 | |
| | MCV fL | 74.5 ± 5.0 | 84.5 ± 5.0 | 93.0 ± 5.0 | |
| | MCH pg | 26.0 ± 2.5 | 29.9 ± 2.5 | 33.3 ± 2.5 | |
| | MCHC g/dL | 34.9 ± 3.0 | 35.4 ± 3.0 | 35.8 ± 3.0 | |
| | RDW-CV | 16.5 ± 3.0 | 15.5 ± 3.0 | 14.5 ± 3.0 | |
| | RDW-SD | 43.5 ± 8.0 | 44.5 ± 8.0 | 47.5 ± 8.0 | |
| | PLT × $10^3$/µL | 65 ± 20 | 267 ± 40 | 565 ± 60 | |
| | MPV fL | 8.7 ± 3.0 | 9.5 ± 3.0 | 9.4 ± 3.0 | |
| | PCT % * | 0.060 ± 0.050 | 0.240 ± 0.100 | 0.500 ± 0.200 | |
| | PDW * | 17.0 ± 3.0 | 16.7 ± 3.0 | 16.7 ± 3.0 | |
| | P-LCC | 17 ± 10 | 64 ± 22 | 144 ± 30 | |
| | P-LCR | 26.0 ± 9.0 | 24.0 ± 9.0 | 25.5 ± 9.0 | |
| | Lymph % | 64.5 ± 12.0 | 33.5 ± 8.0 | 13.0 ± 8.0 | |
| | Mid % | 4.5 ± 4.5 | 6.0 ± 6.0 | 7.0 ± 6.5 | |
| | Gran % | 31.0 ± 10.0 | 60.5 ± 8.0 | 80.0 ± 9.0 | |
| | Lymph × $10^3$/µL | 1.3 ± 0.3 | 2.5 ± 0.6 | 2.7 ± 1.7 | |
| | Mid × $10^3$/µL | 0.2 ± 0.2 | 0.5 ± 0.5 | 1.4 ± 1.3 | |
| | Gran × $10^3$/µL | 0.7 ± 0.3 | 4.6 ± 0.7 | 16.6 ± 1.9 | |
| **BC-3600, BC-3300** | WBC × $10^3$/µL | 2.0 ± 0.5 | 7.8 ± 1.0 | 21.1 ± 2.5 | |
| | RBC × $10^6$/µL | 2.39 ± 0.18 | 4.84 ± 0.24 | 5.82 ± 0.30 | |
| | HGB g/dL | 5.9 ± 0.4 | 13.8 ± 0.6 | 18.5 ± 0.8 | |
| | HCT % | 17.9 ± 1.5 | 40.9 ± 2.0 | 54.1 ± 2.4 | |
| | MCV fL | 75.0 ± 5.0 | 84.5 ± 5.0 | 93.0 ± 5.0 | |
| | MCH pg | 24.7 ± 2.5 | 28.5 ± 2.5 | 31.8 ± 2.5 | |
| | MCHC g/dL | 32.9 ± 3.0 | 33.7 ± 3.0 | 34.2 ± 3.0 | |
| | RDW-CV | 16.0 ± 3.0 | 15.0 ± 3.0 | 14.5 ± 3.0 | |
| | RDW-SD | 35.5 ± 8.0 | 38.5 ± 8.0 | 43.5 ± 8.0 | |
| | PLT × $10^3$/µL | 64 ± 20 | 265 ± 40 | 540 ± 60 | |
| | MPV fL | 9.0 ± 3.0 | 9.2 ± 3.0 | 9.1 ± 3.0 | |
| | PCT % * | 0.060 ± 0.050 | 0.250 ± 0.100 | 0.480 ± 0.200 | |
| | PDW * | 15.2 ± 3.0 | 15.6 ± 3.0 | 15.9 ± 3.0 | |
| | P-LCC | 22 ± 10 | 85 ± 22 | 170 ± 30 | |
| | P-LCR | 31.0 ± 9.0 | 32.0 ± 9.0 | 31.5 ± 9.0 | |
| | Lymph % | 58.0 ± 9.0 | 30.5 ± 8.0 | 13.5 ± 8.0 | |
| | Mid % | 10.0 ± 8.0 | 8.0 ± 7.0 | 7.0 ± 6.0 | |
| | Gran % | 32.0 ± 9.0 | 61.5 ± 8.0 | 79.5 ± 9.0 | |
| | Lymph × $10^3$/µL | 1.2 ± 0.3 | 2.4 ± 0.7 | 2.8 ± 1.7 | |
| | Mid × $10^3$/µL | 0.2 ± 0.2 | 0.6 ± 0.6 | 1.5 ± 1.3 | |
| | Gran × $10^3$/µL | 0.6 ± 0.3 | 4.8 ± 0.7 | 16.8 ± 2.0 | |

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**CONTROL**

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**2019-05-05**

ASSAY VALUES AND EXPECTED RANGES

| Instrument | Parameter | Low<br>LOT B0219L | Normal<br>LOT B0219N | High<br>LOT B0219H | ++++ |
|---|---|---|---|---|---|
| **BC-2800Vet, BC-2600Vet** | WBC × $10^3$/μL | 2.0 ± 0.5 | 8.1 ± 1.0 | 21.4 ± 2.5 | |
| **(Software version 2.0 or higher)** | RBC × $10^6$/μL | 2.28 ± 0.18 | 4.67 ± 0.24 | 5.59 ± 0.30 | |
| | HGB g/dL | 5.9 ± 0.4 | 13.8 ± 0.6 | 18.8 ± 0.8 | |
| | HCT % | 16.9 ± 1.5 | 39.2 ± 2.0 | 52.3 ± 2.4 | |
| | MCV fL | 74.0 ± 5.0 | 84.0 ± 5.0 | 93.5 ± 5.0 | |
| | MCH pg | 25.9 ± 2.5 | 29.6 ± 2.5 | 33.6 ± 2.5 | |
| | MCHC g/dL | 35.0 ± 3.0 | 35.2 ± 3.0 | 36.0 ± 3.0 | |
| | PLT × $10^3$/μL | 63 ± 20 | 260 ± 40 | 510 ± 60 | |

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