





BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

 **B0523**
**2023-08-05**

| Instrument | Parameter | Low | | Normal | | High | |
|---|--|--|--|--|--|-----------------------------------|-----------------------------------|
| | |  B0523L |  B0523N |  B0523H |  B0523H | | |
| | | The U.S. Units | The International Units | The U.S. Units | The International Units | The U.S. Units | The International Units |
| BC-3600 CD version 1.8(FDA) or greater | WBC | 1.9 ± 0.5 × 10 ³ /μL | 1.9 ± 0.5 × 10 ⁹ /L | 7.7 ± 1.0 × 10 ³ /μL | 7.7 ± 1.0 × 10 ⁹ /L | 20.4 ± 2.5 × 10 ³ /μL | 20.4 ± 2.5 × 10 ⁹ /L |
| | RBC | 2.32 ± 0.18 × 10 ⁶ /μL | 2.32 ± 0.18 × 10 ¹² /L | 4.56 ± 0.24 × 10 ⁶ /μL | 4.56 ± 0.24 × 10 ¹² /L | 5.64 ± 0.30 × 10 ⁶ /μL | 5.64 ± 0.30 × 10 ¹² /L |
| | HGB | 5.9 ± 0.4 g/dL | 59 ± 4 g/L | 13.6 ± 0.6 g/dL | 136 ± 6 g/L | 18.6 ± 0.8 g/dL | 186 ± 8 g/L |
| | HCT | 17.7 ± 1.5 % | 17.7 ± 1.5 % | 39.2 ± 2.0 % | 39.2 ± 2.0 % | 53.0 ± 2.4 % | 53.0 ± 2.4 % |
| | MCV | 76.5 ± 5.0 fL | 76.5 ± 5.0 fL | 86.0 ± 5.0 fL | 86.0 ± 5.0 fL | 94.0 ± 5.0 fL | 94.0 ± 5.0 fL |
| | MCH | 25.4 ± 2.5 pg | 25.4 ± 2.5 pg | 29.8 ± 2.5 pg | 29.8 ± 2.5 pg | 33.0 ± 2.5 pg | 33.0 ± 2.5 pg |
| | MCHC | 33.2 ± 3.0 g/dL | 332 ± 30 g/L | 34.7 ± 3.0 g/dL | 347 ± 30 g/L | 35.1 ± 3.0 g/dL | 351 ± 30 g/L |
| | RDW | 15.0 ± 3.0 % | 15.0 ± 3.0 % | 14.5 ± 3.0 % | 14.5 ± 3.0 % | 14.0 ± 3.0 % | 14.0 ± 3.0 % |
| | PLT | 63 ± 20 × 10 ³ /μL | 63 ± 20 × 10 ⁹ /L | 263 ± 40 × 10 ³ /μL | 263 ± 40 × 10 ⁹ /L | 572 ± 60 × 10 ³ /μL | 572 ± 60 × 10 ⁹ /L |
| | MPV | 7.4 ± 3.0 fL | 7.4 ± 3.0 fL | 7.9 ± 3.0 fL | 7.9 ± 3.0 fL | 7.8 ± 3.0 fL | 7.8 ± 3.0 fL |
| | Lymph | 59.0 ± 9.0 % | 59.0 ± 9.0 % | 31.5 ± 8.0 % | 31.5 ± 8.0 % | 15.0 ± 8.0 % | 15.0 ± 8.0 % |
| | Mid | 10.0 ± 9.0 % | 10.0 ± 9.0 % | 7.0 ± 6.0 % | 7.0 ± 6.0 % | 4.5 ± 4.0 % | 4.5 ± 4.0 % |
| | Gran | 31.0 ± 9.0 % | 31.0 ± 9.0 % | 61.5 ± 8.0 % | 61.5 ± 8.0 % | 80.5 ± 9.0 % | 80.5 ± 9.0 % |
| | Lymph# | 1.1 ± 0.2 × 10 ³ /μL | 1.1 ± 0.2 × 10 ⁹ /L | 2.4 ± 0.6 × 10 ³ /μL | 2.4 ± 0.6 × 10 ⁹ /L | 3.1 ± 1.7 × 10 ³ /μL | 3.1 ± 1.7 × 10 ⁹ /L |
| | Mid# | 0.2 ± 0.2 × 10 ³ /μL | 0.2 ± 0.2 × 10 ⁹ /L | 0.5 ± 0.5 × 10 ³ /μL | 0.5 ± 0.5 × 10 ⁹ /L | 0.9 ± 0.8 × 10 ³ /μL | 0.9 ± 0.8 × 10 ⁹ /L |
| | Gran# | 0.6 ± 0.2 × 10 ³ /μL | 0.6 ± 0.2 × 10 ⁹ /L | 4.8 ± 0.7 × 10 ³ /μL | 4.8 ± 0.7 × 10 ⁹ /L | 16.4 ± 1.9 × 10 ³ /μL | 16.4 ± 1.9 × 10 ⁹ /L |
| | BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015 | WBC | 2.0 ± 0.5 × 10 ³ /μL | 2.0 ± 0.5 × 10 ⁹ /L | 8.0 ± 1.0 × 10 ³ /μL | 8.0 ± 1.0 × 10 ⁹ /L | 20.6 ± 2.5 × 10 ³ /μL |
| RBC | | 2.44 ± 0.18 × 10 ⁶ /μL | 2.44 ± 0.18 × 10 ¹² /L | 4.71 ± 0.24 × 10 ⁶ /μL | 4.71 ± 0.24 × 10 ¹² /L | 5.74 ± 0.30 × 10 ⁶ /μL | 5.74 ± 0.30 × 10 ¹² /L |
| HGB | | 6.1 ± 0.4 g/dL | 61 ± 4 g/L | 13.5 ± 0.6 g/dL | 135 ± 6 g/L | 18.4 ± 0.8 g/dL | 184 ± 8 g/L |
| HCT | | 18.6 ± 1.5 % | 18.6 ± 1.5 % | 40.6 ± 2.0 % | 40.6 ± 2.0 % | 53.7 ± 2.4 % | 53.7 ± 2.4 % |
| MCV | | 76.2 ± 5.0 fL | 76.2 ± 5.0 fL | 86.1 ± 5.0 fL | 86.1 ± 5.0 fL | 93.5 ± 5.0 fL | 93.5 ± 5.0 fL |
| MCH | | 25 ± 2.5 pg | 25.0 ± 2.5 pg | 28.7 ± 2.5 pg | 28.7 ± 2.5 pg | 32.1 ± 2.5 pg | 32.1 ± 2.5 pg |
| MCHC | | 32.8 ± 3.0 g/dL | 328 ± 30 g/L | 33.3 ± 3.0 g/dL | 333 ± 30 g/L | 34.3 ± 3.0 g/dL | 343 ± 30 g/L |
| RDW-CV | | 17.1 ± 3.0 % | 17.1 ± 3.0 % | 15.1 ± 3.0 % | 15.1 ± 3.0 % | 14.2 ± 3.0 % | 14.2 ± 3.0 % |
| RDW-SD | | 39.7 ± 8.0 fL | 39.7 ± 8.0 fL | 43.0 ± 8.0 fL | 43.0 ± 8.0 fL | 46.4 ± 8.0 fL | 46.4 ± 8.0 fL |
| PLT | | 66 ± 20 × 10 ³ /μL | 66 ± 20 × 10 ⁹ /L | 273 ± 40 × 10 ³ /μL | 273 ± 40 × 10 ⁹ /L | 572 ± 60 × 10 ³ /μL | 572 ± 60 × 10 ⁹ /L |
| MPV | | 8.8 ± 3.0 fL | 8.8 ± 3.0 fL | 9.2 ± 3.0 fL | 9.2 ± 3.0 fL | 9.2 ± 3.0 fL | 9.2 ± 3.0 fL |
| *PCT | | 0.058 ± 0.050 % | 0.058 ± 0.050 % | 0.251 ± 0.100 % | 0.251 ± 0.100 % | 0.526 ± 0.200 % | 0.526 ± 0.200 % |
| *PDW | | 15.3 ± 3.0 | 15.3 ± 3.0 | 15.7 ± 3.0 | 15.7 ± 3.0 | 16.0 ± 3.0 | 16.0 ± 3.0 |
| *P-LCC | | 19 ± 10 × 10 ³ /μL | 19 ± 10 × 10 ⁹ /L | 85 ± 22 × 10 ³ /μL | 85 ± 22 × 10 ⁹ /L | 176 ± 30 × 10 ³ /μL | 176 ± 30 × 10 ⁹ /L |
| *P-LCR | | 29.4 ± 12.0 % | 29.4 ± 12.0 % | 31.3 ± 9.0 % | 31.3 ± 9.0 % | 30.7 ± 9.0 % | 30.7 ± 9.0 % |
| Lymph | | 59.0 ± 9.0 % | 59.0 ± 9.0 % | 31.4 ± 8.0 % | 31.4 ± 8.0 % | 14.4 ± 8.0 % | 14.4 ± 8.0 % |
| Mid | | 11.4 ± 9.0 % | 11.4 ± 9.0 % | 8.0 ± 7.0 % | 8.0 ± 7.0 % | 5.1 ± 4.5 % | 5.1 ± 4.5 % |
| Gran | 29.6 ± 9.0 % | 29.6 ± 9.0 % | 60.6 ± 8.0 % | 60.6 ± 8.0 % | 80.5 ± 9.0 % | 80.5 ± 9.0 % | |
| Lymph# | 1.2 ± 0.2 × 10 ³ /μL | 1.2 ± 0.2 × 10 ⁹ /L | 2.5 ± 0.7 × 10 ³ /μL | 2.5 ± 0.7 × 10 ⁹ /L | 3.0 ± 1.7 × 10 ³ /μL | 3.0 ± 1.7 × 10 ⁹ /L | |
| Mid# | 0.2 ± 0.2 × 10 ³ /μL | 0.2 ± 0.2 × 10 ⁹ /L | 0.6 ± 0.6 × 10 ³ /μL | 0.6 ± 0.6 × 10 ⁹ /L | 1.1 ± 1.0 × 10 ³ /μL | 1.1 ± 1.0 × 10 ⁹ /L | |
| Gran# | 0.6 ± 0.2 × 10 ³ /μL | 0.6 ± 0.2 × 10 ⁹ /L | 4.9 ± 0.7 × 10 ³ /μL | 4.9 ± 0.7 × 10 ⁹ /L | 16.5 ± 1.9 × 10 ³ /μL | 16.5 ± 1.9 × 10 ⁹ /L | |

THIS
ANALYZER
NOT
APPROVED
FOR USE IN
THE US

* For Research Use Only.
Before using, refer to the instruction sheet for mixing directions.

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China
Tel: +86 755 26582479 26582888
Fax: +86 755 26582934 26582500

U.S.Headquarters:
Mindray North America
800 Macarthur Blvd., Mahwah, NJ 07430-0619,USA
Tel: (1-800) 288 2121

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0523



2023-08-05

| Instrument | Parameter | Low | | Normal | | High | |
|------------|-----------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | | LOT B0523L | LOT B0523N | LOT B0523H | LOT B0523H | | |
| | | The U.S. Units | The International Units | The U.S. Units | The International Units | The U.S. Units | The International Units |
| BC-3200 | WBC | 2.1 ± 0.5 × 10 ⁹ /μL | 2.1 ± 0.5 × 10 ⁹ /L | 8.3 ± 1.0 × 10 ⁹ /μL | 8.3 ± 1.0 × 10 ⁹ /L | 21.2 ± 2.5 × 10 ⁹ /μL | 21.2 ± 2.5 × 10 ⁹ /L |
| | RBC | 2.37 ± 0.18 × 10 ⁶ /μL | 2.37 ± 0.18 × 10 ¹² /L | 4.54 ± 0.24 × 10 ⁶ /μL | 4.54 ± 0.24 × 10 ¹² /L | 5.61 ± 0.30 × 10 ⁶ /μL | 5.61 ± 0.30 × 10 ¹² /L |
| | HGB | 6.1 ± 0.4 g/dL | 61 ± 4 g/L | 13.5 ± 0.6 g/dL | 135 ± 6 g/L | 18.3 ± 0.8 g/dL | 183 ± 8 g/L |
| | HCT | 18.0 ± 1.5 % | 18.0 ± 1.5 % | 39.6 ± 2.0 % | 39.6 ± 2.0 % | 54.0 ± 2.4 % | 54.0 ± 2.4 % |
| | MCV | 76.1 ± 5.0 fL | 76.1 ± 5.0 fL | 87.3 ± 5.0 fL | 87.3 ± 5.0 fL | 96.2 ± 5.0 fL | 96.2 ± 5.0 fL |
| | MCH | 25.7 ± 2.5 pg | 25.7 ± 2.5 pg | 29.7 ± 2.5 pg | 29.7 ± 2.5 pg | 32.6 ± 2.5 pg | 32.6 ± 2.5 pg |
| | MCHC | 33.8 ± 3.0 g/dL | 338 ± 30 g/L | 34.1 ± 3.0 g/dL | 341 ± 30 g/L | 33.9 ± 3.0 g/dL | 339 ± 30 g/L |
| | *RDW | 15.5 ± 3.0 % | 15.5 ± 3.0 % | 14.3 ± 3.0 % | 14.3 ± 3.0 % | 13.5 ± 3.0 % | 13.5 ± 3.0 % |
| | PLT | 74 ± 20 × 10 ³ /μL | 74 ± 20 × 10 ⁹ /L | 261 ± 40 × 10 ³ /μL | 261 ± 40 × 10 ⁹ /L | 540 ± 60 × 10 ³ /μL | 540 ± 60 × 10 ⁹ /L |
| | *MPV | 8.2 ± 3.0 fL | 8.2 ± 3.0 fL | 7.8 ± 3.0 fL | 7.8 ± 3.0 fL | 7.6 ± 3.0 fL | 7.6 ± 3.0 fL |
| | Lymph | 51.5 ± 12.0 % | 51.5 ± 12.0 % | 29.5 ± 8.0 % | 29.5 ± 8.0 % | 15.0 ± 6.0 % | 15.0 ± 6.0 % |
| | *Mid | 15.0 ± 10.0 % | 15.0 ± 10.0 % | 8.5 ± 8.0 % | 8.5 ± 8.0 % | 7.0 ± 6.0 % | 7.0 ± 6.0 % |
| | Gran | 33.5 ± 9.0 % | 33.5 ± 9.0 % | 62.0 ± 8.0 % | 62.0 ± 8.0 % | 78.0 ± 8.0 % | 78.0 ± 8.0 % |
| | Lymph# | 1.1 ± 0.3 × 10 ³ /μL | 1.1 ± 0.3 × 10 ⁹ /L | 2.4 ± 0.7 × 10 ³ /μL | 2.4 ± 0.7 × 10 ⁹ /L | 3.2 ± 1.3 × 10 ³ /μL | 3.2 ± 1.3 × 10 ⁹ /L |
| | *Mid# | 0.3 ± 0.2 × 10 ³ /μL | 0.3 ± 0.2 × 10 ⁹ /L | 0.7 ± 0.7 × 10 ³ /μL | 0.7 ± 0.7 × 10 ⁹ /L | 1.5 ± 1.3 × 10 ³ /μL | 1.5 ± 1.3 × 10 ⁹ /L |
| | Gran# | 0.7 ± 0.2 × 10 ³ /μL | 0.7 ± 0.2 × 10 ⁹ /L | 5.2 ± 0.7 × 10 ³ /μL | 5.2 ± 0.7 × 10 ⁹ /L | 16.5 ± 1.7 × 10 ³ /μL | 16.5 ± 1.7 × 10 ⁹ /L |

* For new software version 01.07.00 or greater.

Before using, refer to the instruction sheet for mixing directions.

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
 Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China
 Tel: +86 755 26582479 26582888
 Fax: +86 755 26582934 26582500

U.S.Headquarters:
 Mindray North America
 800 Macarthur Blvd., Mahwah, NJ 07430-0619,USA
 Tel: (1-800) 288 2121