

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0221



2021-05-05

Instrument	Parameter	Low		Normal		High	
		LOT	B0221L	LOT	B0221N	LOT	B0221H
		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	2.0 ± 0.5 × 10 <sup>3</sup> /μL	2.0 ± 0.5 × 10 <sup>9</sup> /L	7.8 ± 1.0 × 10 <sup>3</sup> /μL	7.8 ± 1.0 × 10 <sup>9</sup> /L	20.6 ± 2.5 × 10 <sup>3</sup> /μL	20.6 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.38 ± 0.18 × 10 <sup>6</sup> /μL	2.38 ± 0.18 × 10 <sup>12</sup> /L	4.62 ± 0.24 × 10 <sup>6</sup> /μL	4.62 ± 0.24 × 10 <sup>12</sup> /L	5.72 ± 0.30 × 10 <sup>6</sup> /μL	5.72 ± 0.30 × 10 <sup>12</sup> /L
	HGB	5.9 ± 0.4 g/dL	59 ± 4 g/L	13.8 ± 0.6 g/dL	138 ± 6 g/L	19.0 ± 0.8 g/dL	190 ± 8 g/L
	HCT	17.7 ± 1.5 %	17.7 ± 1.5 %	39.5 ± 2.0 %	39.5 ± 2.0 %	53.8 ± 2.4 %	53.8 ± 2.4 %
	MCV	74.5 ± 5.0 fL	74.5 ± 5.0 fL	85.5 ± 5.0 fL	85.5 ± 5.0 fL	94.0 ± 5.0 fL	94.0 ± 5.0 fL
	MCH	24.8 ± 2.5 pg	24.8 ± 2.5 pg	29.9 ± 2.5 pg	29.9 ± 2.5 pg	33.2 ± 2.5 pg	33.2 ± 2.5 pg
	MCHC	33.3 ± 3.0 g/dL	333 ± 30 g/L	34.9 ± 3.0 g/dL	349 ± 30 g/L	35.3 ± 3.0 g/dL	353 ± 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 <sup>3</sup> /μL	63 ± 20 × 10 <sup>9</sup> /L	248 ± 40 × 10 <sup>3</sup> /μL	248 ± 40 × 10 <sup>9</sup> /L	536 ± 60 × 10 <sup>3</sup> /μL	536 ± 60 × 10 <sup>9</sup> /L
	MPV	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.1 ± 3.0 fL	8.1 ± 3.0 fL
	Lymph	60.0 ± 12.0 %	60.0 ± 12.0 %	30.5 ± 8.0 %	30.5 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
	Mid	8.0 ± 7.0 %	8.0 ± 7.0 %	6.5 ± 5.0 %	6.5 ± 5.0 %	4.5 ± 4.0 %	4.5 ± 4.0 %
	Gran	32.0 ± 9.0 %	32.0 ± 9.0 %	63.0 ± 8.0 %	63.0 ± 8.0 %	82.0 ± 9.0 %	82.0 ± 9.0 %
	Lymph#	1.2 ± 0.3 × 10 <sup>3</sup> /μL	1.2 ± 0.3 × 10 <sup>9</sup> /L	2.4 ± 0.7 × 10 <sup>3</sup> /μL	2.4 ± 0.7 × 10 <sup>9</sup> /L	2.8 ± 1.7 × 10 <sup>3</sup> /μL	2.8 ± 1.7 × 10 <sup>9</sup> /L
	Mid#	0.2 ± 0.2 × 10 <sup>3</sup> /μL	0.2 ± 0.2 × 10 <sup>9</sup> /L	0.5 ± 0.4 × 10 <sup>3</sup> /μL	0.5 ± 0.4 × 10 <sup>9</sup> /L	0.9 ± 0.8 × 10 <sup>3</sup> /μL	0.9 ± 0.8 × 10 <sup>9</sup> /L
	Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	4.9 ± 0.7 × 10 <sup>3</sup> /μL	4.9 ± 0.7 × 10 <sup>9</sup> /L	16.9 ± 1.9 × 10 <sup>3</sup> /μL	16.9 ± 1.9 × 10 <sup>9</sup> /L
BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	2.0 ± 0.5 × 10 <sup>3</sup> /μL	2.0 ± 0.5 × 10 <sup>9</sup> /L	8.1 ± 1.0 × 10 <sup>3</sup> /μL	8.1 ± 1.0 × 10 <sup>9</sup> /L	21.2 ± 2.5 × 10 <sup>3</sup> /μL	21.2 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.51 ± 0.18 × 10 <sup>6</sup> /μL	2.51 ± 0.18 × 10 <sup>12</sup> /L	4.75 ± 0.24 × 10 <sup>6</sup> /μL	4.75 ± 0.24 × 10 <sup>12</sup> /L	5.81 ± 0.30 × 10 <sup>6</sup> /μL	5.81 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.2 ± 0.4 g/dL	62 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.5 ± 0.8 g/dL	185 ± 8 g/L
	HCT	18.5 ± 1.5 %	18.5 ± 1.5 %	40.1 ± 2.0 %	40.1 ± 2.0 %	53.7 ± 2.4 %	53.7 ± 2.4 %
	MCV	73.6 ± 5.0 fL	73.6 ± 5.0 fL	84.4 ± 5.0 fL	84.4 ± 5.0 fL	92.4 ± 5.0 fL	92.4 ± 5.0 fL
	MCH	24.7 ± 2.5 pg	24.7 ± 2.5 pg	28.8 ± 2.5 pg	28.8 ± 2.5 pg	31.8 ± 2.5 pg	31.8 ± 2.5 pg
	MCHC	33.6 ± 3.0 g/dL	336 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L	34.5 ± 3.0 g/dL	345 ± 30 g/L
	RDW-CV	16.0 ± 3.0 %	16.0 ± 3.0 %	15.0 ± 3.0 %	15.0 ± 3.0 %	14.5 ± 3.0 %	14.5 ± 3.0 %
	RDW-SD	36.0 ± 8.0 fL	36.0 ± 8.0 fL	40.5 ± 8.0 fL	40.5 ± 8.0 fL	43.5 ± 8.0 fL	43.5 ± 8.0 fL
	PLT	66 ± 20 × 10 <sup>3</sup> /μL	66 ± 20 × 10 <sup>9</sup> /L	255 ± 40 × 10 <sup>3</sup> /μL	255 ± 40 × 10 <sup>9</sup> /L	537 ± 60 × 10 <sup>3</sup> /μL	537 ± 60 × 10 <sup>9</sup> /L
	MPV	9.1 ± 3.0 fL	9.1 ± 3.0 fL	9.0 ± 3.0 fL	9.0 ± 3.0 fL	9.2 ± 3.0 fL	9.2 ± 3.0 fL
	*PCT	0.060 ± 0.050 %	0.060 ± 0.050 %	0.230 ± 0.100 %	0.230 ± 0.100 %	0.494 ± 0.200 %	0.494 ± 0.200 %
	*PDW	15.2 ± 3.0	15.2 ± 3.0	15.5 ± 3.0	15.5 ± 3.0	15.8 ± 3.0	15.8 ± 3.0
	*P-LCC	21 ± 10 × 10 <sup>3</sup> /μL	21 ± 10 × 10 <sup>9</sup> /L	73 ± 22 × 10 <sup>3</sup> /μL	73 ± 22 × 10 <sup>9</sup> /L	163 ± 30 × 10 <sup>3</sup> /μL	163 ± 30 × 10 <sup>9</sup> /L
	*P-LCR	31.1 ± 9.0 %	31.1 ± 9.0 %	28.5 ± 9.0 %	28.5 ± 9.0 %	30.4 ± 9.0 %	30.4 ± 9.0 %
	Lymph	60.1 ± 9.0 %	60.1 ± 9.0 %	30.7 ± 8.0 %	30.7 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
Mid	10.0 ± 8.0 %	10.0 ± 8.0 %	8.1 ± 7.0 %	8.1 ± 7.0 %	5.5 ± 5.0 %	5.5 ± 5.0 %	
Gran	29.9 ± 9.0 %	29.9 ± 9.0 %	61.2 ± 8.0 %	61.2 ± 8.0 %	81.0 ± 9.0 %	81.0 ± 9.0 %	
Lymph#	1.2 ± 0.3 × 10 <sup>3</sup> /μL	1.2 ± 0.3 × 10 <sup>9</sup> /L	2.5 ± 0.7 × 10 <sup>3</sup> /μL	2.5 ± 0.7 × 10 <sup>9</sup> /L	2.9 ± 1.8 × 10 <sup>3</sup> /μL	2.9 ± 1.8 × 10 <sup>9</sup> /L	
Mid#	0.2 ± 0.2 × 10 <sup>3</sup> /μL	0.2 ± 0.2 × 10 <sup>9</sup> /L	0.7 ± 0.6 × 10 <sup>3</sup> /μL	0.7 ± 0.6 × 10 <sup>9</sup> /L	1.2 ± 1.1 × 10 <sup>3</sup> /μL	1.2 ± 1.1 × 10 <sup>9</sup> /L	
Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	4.9 ± 0.7 × 10 <sup>3</sup> /μL	4.9 ± 0.7 × 10 <sup>9</sup> /L	17.1 ± 1.9 × 10 <sup>3</sup> /μL	17.1 ± 1.9 × 10 <sup>9</sup> /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	B0221
-----	-------



2021-05-05

Instrument	Parameter	Low		Normal		High	
		LOT	B0221L	LOT	B0221N	LOT	B0221H
		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 <sup>9</sup> /μL	2.1 ± 0.5 × 10 <sup>9</sup> /L	8.3 ± 1.0 × 10 <sup>9</sup> /μL	8.3 ± 1.0 × 10 <sup>9</sup> /L	21.7 ± 2.5 × 10 <sup>9</sup> /μL	21.7 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.46 ± 0.18 × 10 <sup>6</sup> /μL	2.46 ± 0.18 × 10 <sup>12</sup> /L	4.66 ± 0.24 × 10 <sup>6</sup> /μL	4.66 ± 0.24 × 10 <sup>12</sup> /L	5.81 ± 0.30 × 10 <sup>6</sup> /μL	5.81 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.6 ± 0.8 g/dL	186 ± 8 g/L
	HCT	17.8 ± 1.5 %	17.8 ± 1.5 %	39.7 ± 2.0 %	39.7 ± 2.0 %	54.0 ± 2.4 %	54.0 ± 2.4 %
	MCV	72.5 ± 5.0 fL	72.5 ± 5.0 fL	85.1 ± 5.0 fL	85.1 ± 5.0 fL	92.9 ± 5.0 fL	92.9 ± 5.0 fL
	MCH	24.4 ± 2.5 pg	24.4 ± 2.5 pg	29.2 ± 2.5 pg	29.2 ± 2.5 pg	32.0 ± 2.5 pg	32.0 ± 2.5 pg
	MCHC	33.6 ± 3.0 g/dL	336 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L	34.5 ± 3.0 g/dL	345 ± 30 g/L
	*RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %
	PLT	73 ± 20 × 10 <sup>3</sup> /μL	73 ± 20 × 10 <sup>9</sup> /L	252 ± 40 × 10 <sup>3</sup> /μL	252 ± 40 × 10 <sup>9</sup> /L	525 ± 60 × 10 <sup>3</sup> /μL	525 ± 60 × 10 <sup>9</sup> /L
	*MPV	8.8 ± 3.0 fL	8.8 ± 3.0 fL	8.1 ± 3.0 fL	8.1 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL
	Lymph	54.0 ± 12.0 %	54.0 ± 12.0 %	28.5 ± 8.0 %	28.5 ± 8.0 %	13.0 ± 8.0 %	13.0 ± 8.0 %
	*Mid	13.0 ± 11.0 %	13.0 ± 11.0 %	8.5 ± 7.0 %	8.5 ± 7.0 %	6.0 ± 5.0 %	6.0 ± 5.0 %
	Gran	33.0 ± 10.0 %	33.0 ± 10.0 %	63.0 ± 9.0 %	63.0 ± 9.0 %	81.0 ± 9.0 %	81.0 ± 9.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.4 ± 0.7 × 10 <sup>3</sup> /μL	2.4 ± 0.7 × 10 <sup>9</sup> /L	2.8 ± 1.8 × 10 <sup>3</sup> /μL	2.8 ± 1.8 × 10 <sup>9</sup> /L
	*Mid#	0.3 ± 0.3 × 10 <sup>3</sup> /μL	0.3 ± 0.3 × 10 <sup>9</sup> /L	0.7 ± 0.6 × 10 <sup>3</sup> /μL	0.7 ± 0.6 × 10 <sup>9</sup> /L	1.3 ± 1.1 × 10 <sup>3</sup> /μL	1.3 ± 1.1 × 10 <sup>9</sup> /L
	Gran#	0.7 ± 0.3 × 10 <sup>3</sup> /μL	0.7 ± 0.3 × 10 <sup>9</sup> /L	5.2 ± 0.8 × 10 <sup>3</sup> /μL	5.2 ± 0.8 × 10 <sup>9</sup> /L	17.6 ± 2.0 × 10 <sup>3</sup> /μL	17.6 ± 2.0 × 10 <sup>9</sup> /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