

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0820



2020-11-05

Instrument	Parameter	Low		Normal		High	
		LOT	B0820L	LOT	B0820N	LOT	B0820H
		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	7.7 ± 1.0 × 10 <sup>3</sup> /μL	7.7 ± 1.0 × 10 <sup>9</sup> /L	20.1 ± 2.5 × 10 <sup>3</sup> /μL	20.1 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.30 ± 0.18 × 10 <sup>6</sup> /μL	2.30 ± 0.18 × 10 <sup>12</sup> /L	4.63 ± 0.24 × 10 <sup>6</sup> /μL	4.63 ± 0.24 × 10 <sup>12</sup> /L	5.68 ± 0.30 × 10 <sup>6</sup> /μL	5.68 ± 0.30 × 10 <sup>12</sup> /L
	HGB	5.8 ± 0.4 g/dL	58 ± 4 g/L	13.8 ± 0.6 g/dL	138 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	17.4 ± 1.5 %	17.4 ± 1.5 %	39.8 ± 2.0 %	39.8 ± 2.0 %	53.7 ± 2.4 %	53.7 ± 2.4 %
	MCV	75.5 ± 5.0 fL	75.5 ± 5.0 fL	86.0 ± 5.0 fL	86.0 ± 5.0 fL	94.5 ± 5.0 fL	94.5 ± 5.0 fL
	MCH	25.2 ± 2.5 pg	25.2 ± 2.5 pg	29.8 ± 2.5 pg	29.8 ± 2.5 pg	33.3 ± 2.5 pg	33.3 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	34.7 ± 3.0 g/dL	347 ± 30 g/L	35.2 ± 3.0 g/dL	352 ± 30 g/L
	RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	13.0 ± 3.0 %	13.0 ± 3.0 %
	PLT	57 ± 20 × 10 <sup>3</sup> /μL	57 ± 20 × 10 <sup>9</sup> /L	260 ± 40 × 10 <sup>3</sup> /μL	260 ± 40 × 10 <sup>9</sup> /L	559 ± 60 × 10 <sup>3</sup> /μL	559 ± 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	8.2 ± 3.0 fL	8.2 ± 3.0 fL
	Lymph	55.0 ± 12.0 %	55.0 ± 12.0 %	30.5 ± 8.0 %	30.5 ± 8.0 %	14.0 ± 8.0 %	14.0 ± 8.0 %
	Mid	11.0 ± 8.0 %	11.0 ± 8.0 %	7.0 ± 5.0 %	7.0 ± 5.0 %	4.5 ± 4.0 %	4.5 ± 4.0 %
	Gran	34.0 ± 9.0 %	34.0 ± 9.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	81.5 ± 9.0 %	81.5 ± 9.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.3 ± 0.7 × 10 <sup>3</sup> /μL	2.3 ± 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 ± 0.9 × 10 <sup>3</sup> /μL	0.9 ± 0.9 × 10 <sup>9</sup> /L
	Gran#	0.7 ± 0.2 × 10 <sup>3</sup> /μL	0.7 ± 0.2 × 10 <sup>9</sup> /L	4.8 ± 0.7 × 10 <sup>3</sup> /μL	4.8 ± 0.7 × 10 <sup>9</sup> /L	16.4 ± 1.9 × 10 <sup>3</sup> /μL	16.4 ± 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	7.8 ± 1.0 × 10 <sup>3</sup> /μL	7.8 ± 1.0 × 10 <sup>9</sup> /L	20.7 ± 2.5 × 10 <sup>3</sup> /μL	20.7 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.39 ± 0.18 × 10 <sup>6</sup> /μL	2.39 ± 0.18 × 10 <sup>12</sup> /L	4.74 ± 0.24 × 10 <sup>6</sup> /μL	4.74 ± 0.24 × 10 <sup>12</sup> /L	5.76 ± 0.30 × 10 <sup>6</sup> /μL	5.76 ± 0.30 × 10 <sup>12</sup> /L
	HGB	5.9 ± 0.4 g/dL	59 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.5 ± 0.8 g/dL	185 ± 8 g/L
	HCT	17.9 ± 1.5 %	17.9 ± 1.5 %	40.5 ± 2.0 %	40.5 ± 2.0 %	53.6 ± 2.4 %	53.6 ± 2.4 %
	MCV	74.7 ± 5.0 fL	74.7 ± 5.0 fL	85.4 ± 5.0 fL	85.4 ± 5.0 fL	93.1 ± 5.0 fL	93.1 ± 5.0 fL
	MCH	24.7 ± 2.5 pg	24.7 ± 2.5 pg	28.7 ± 2.5 pg	28.7 ± 2.5 pg	32.1 ± 2.5 pg	32.1 ± 2.5 pg
	MCHC	33.0 ± 3.0 g/dL	330 ± 30 g/L	33.6 ± 3.0 g/dL	336 ± 30 g/L	34.5 ± 3.0 g/dL	345 ± 30 g/L
	RDW-CV	16.5 ± 3.0 %	16.5 ± 3.0 %	15.0 ± 3.0 %	15.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	RDW-SD	36.0 ± 8.0 fL	36.0 ± 8.0 fL	40.0 ± 8.0 fL	40.0 ± 8.0 fL	42.0 ± 8.0 fL	42.0 ± 8.0 fL
	PLT	60 ± 20 × 10 <sup>3</sup> /μL	60 ± 20 × 10 <sup>9</sup> /L	260 ± 40 × 10 <sup>3</sup> /μL	260 ± 40 × 10 <sup>9</sup> /L	547 ± 60 × 10 <sup>3</sup> /μL	547 ± 60 × 10 <sup>9</sup> /L
	MPV	8.9 ± 3.0 fL	8.9 ± 3.0 fL	9.2 ± 3.0 fL	9.2 ± 3.0 fL	9.1 ± 3.0 fL	9.1 ± 3.0 fL
	*PCT	0.053 ± 0.050 %	0.053 ± 0.050 %	0.239 ± 0.100 %	0.239 ± 0.100 %	0.498 ± 0.200 %	0.498 ± 0.200 %
	*PDW	15.2 ± 3.0	15.2 ± 3.0	15.7 ± 3.0	15.7 ± 3.0	15.9 ± 3.0	15.9 ± 3.0
	*P-LCC	18 ± 10 × 10 <sup>3</sup> /μL	18 ± 10 × 10 <sup>9</sup> /L	82 ± 22 × 10 <sup>3</sup> /μL	82 ± 22 × 10 <sup>9</sup> /L	164 ± 30 × 10 <sup>3</sup> /μL	164 ± 30 × 10 <sup>9</sup> /L
	*P-LCR	30.4 ± 9.0 %	30.4 ± 9.0 %	31.7 ± 9.0 %	31.7 ± 9.0 %	29.9 ± 9.0 %	29.9 ± 9.0 %
	Lymph	56.1 ± 9.0 %	56.1 ± 9.0 %	30.0 ± 8.0 %	30.0 ± 8.0 %	13.8 ± 8.0 %	13.8 ± 8.0 %
Mid	12.4 ± 8.0 %	12.4 ± 8.0 %	8.8 ± 7.0 %	8.8 ± 7.0 %	6.5 ± 5.0 %	6.5 ± 5.0 %	
Gran	31.5 ± 9.0 %	31.5 ± 9.0 %	61.2 ± 8.0 %	61.2 ± 8.0 %	79.7 ± 9.0 %	79.7 ± 9.0 %	
Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.3 ± 0.7 × 10 <sup>3</sup> /μL	2.3 ± 0.7 × 10 <sup>9</sup> /L	2.9 ± 1.7 × 10 <sup>3</sup> /μL	2.9 ± 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	0.7 ± 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	4.8 ± 0.7 × 10 <sup>3</sup> /μL	4.8 ± 0.7 × 10 <sup>9</sup> /L	16.5 ± 1.9 × 10 <sup>3</sup> /μL	16.5 ± 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 B0820



2020-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0820L	LOT B0820L	LOT B0820N	LOT B0820N	LOT B0820H	LOT B0820H
		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	8.1 ± 1.0 × 10 <sup>9</sup> /μL	8.1 ± 1.0 × 10 <sup>9</sup> /L	20.9 ± 2.5 × 10 <sup>9</sup> /μL	20.9 ± 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	4.68 ± 0.24 × 10 <sup>6</sup> /μL	4.68 ± 0.24 × 10 <sup>12</sup> /L	5.70 ± 0.30 × 10 <sup>6</sup> /μL	5.70 ± 0.30 × 10 <sup>12</sup> /L
	HGB	5.8 ± 0.4 g/dL	58 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.5 ± 0.8 g/dL	185 ± 8 g/L
	HCT	17.7 ± 1.5 %	17.7 ± 1.5 %	40.4 ± 2.0 %	40.4 ± 2.0 %	54.4 ± 2.4 %	54.4 ± 2.4 %
	MCV	74.3 ± 5.0 fL	74.3 ± 5.0 fL	86.4 ± 5.0 fL	86.4 ± 5.0 fL	95.5 ± 5.0 fL	95.5 ± 5.0 fL
	MCH	24.4 ± 2.5 pg	24.4 ± 2.5 pg	29.3 ± 2.5 pg	29.3 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
	MCHC	32.8 ± 3.0 g/dL	328 ± 30 g/L	33.9 ± 3.0 g/dL	339 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 30 g/L
	*RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	13.0 ± 3.0 %	13.0 ± 3.0 %
	PLT	71 ± 20 × 10 <sup>3</sup> /μL	71 ± 20 × 10 <sup>9</sup> /L	262 ± 40 × 10 <sup>3</sup> /μL	262 ± 40 × 10 <sup>9</sup> /L	544 ± 60 × 10 <sup>3</sup> /μL	544 ± 60 × 10 <sup>9</sup> /L
	*MPV	8.9 ± 3.0 fL	8.9 ± 3.0 fL	8.4 ± 3.0 fL	8.4 ± 3.0 fL	8.2 ± 3.0 fL	8.2 ± 3.0 fL
	Lymph	51.0 ± 12.0 %	51.0 ± 12.0 %	28.0 ± 8.0 %	28.0 ± 8.0 %	14.0 ± 6.0 %	14.0 ± 6.0 %
	*Mid	15.0 ± 9.0 %	15.0 ± 9.0 %	9.5 ± 7.0 %	9.5 ± 7.0 %	7.0 ± 5.0 %	7.0 ± 5.0 %
	Gran	34.0 ± 10.0 %	34.0 ± 10.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	79.0 ± 8.0 %	79.0 ± 8.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.3 ± 0.7 × 10 <sup>3</sup> /μL	2.3 ± 0.7 × 10 <sup>9</sup> /L	2.9 ± 1.3 × 10 <sup>3</sup> /μL	2.9 ± 1.3 × 10 <sup>9</sup> /L
	*Mid#	0.3 ± 0.2 × 10 <sup>3</sup> /μL	0.3 ± 0.2 × 10 <sup>9</sup> /L	0.8 ± 0.6 × 10 <sup>3</sup> /μL	0.8 ± 0.6 × 10 <sup>9</sup> /L	1.5 ± 1.1 × 10 <sup>3</sup> /μL	1.5 ± 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	5.1 ± 0.7 × 10 <sup>3</sup> /μL	5.1 ± 0.7 × 10 <sup>9</sup> /L	16.5 ± 1.7 × 10 <sup>3</sup> /μL	16.5 ± 1.7 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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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