

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0219



2019-05-05

Instrument	Parameter	Low		Normal		High	
		LOT B0219L	LOT B0219L	LOT B0219N	LOT B0219N	LOT B0219H	LOT B0219H
		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	7.6 ± 1.0 × 10 <sup>3</sup> /μL	7.6 ± 1.0 × 10 <sup>9</sup> /L	20.4 ± 2.5 × 10 <sup>3</sup> /μL	20.4 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.32 ± 0.18 × 10 <sup>6</sup> /μL	2.32 ± 0.18 × 10 <sup>12</sup> /L	4.76 ± 0.24 × 10 <sup>6</sup> /μL	4.76 ± 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	5.8 ± 0.4 g/dL	58 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.7 ± 0.8 g/dL	187 ± 8 g/L
	HCT	17.6 ± 1.5 %	17.6 ± 1.5 %	40.0 ± 2.0 %	40.0 ± 2.0 %	53.6 ± 2.4 %	53.6 ± 2.4 %
	MCV	76.0 ± 5.0 fL	76.0 ± 5.0 fL	84.0 ± 5.0 fL	84.0 ± 5.0 fL	93.0 ± 5.0 fL	93.0 ± 5.0 fL
	MCH	25.0 ± 2.5 pg	25.0 ± 2.5 pg	28.8 ± 2.5 pg	28.8 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
	MCHC	32.9 ± 3.0 g/dL	329 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L	34.9 ± 3.0 g/dL	349 ± 30 g/L
	RDW	14.5 ± 3.0 %	14.5 ± 3.0 %	14.5 ± 3.0 %	14.5 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	PLT	66 ± 20 × 10 <sup>3</sup> /μL	66 ± 20 × 10 <sup>9</sup> /L	259 ± 40 × 10 <sup>3</sup> /μL	259 ± 40 × 10 <sup>9</sup> /L	536 ± 60 × 10 <sup>3</sup> /μL	536 ± 60 × 10 <sup>9</sup> /L
	MPV	8.2 ± 3.0 fL	8.2 ± 3.0 fL	8.4 ± 3.0 fL	8.4 ± 3.0 fL	8.2 ± 3.0 fL	8.2 ± 3.0 fL
	Lymph	58.5 ± 12.0 %	58.5 ± 12.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
	Mid	8.5 ± 7.0 %	8.5 ± 7.0 %	6.0 ± 5.0 %	6.0 ± 5.0 %	5.0 ± 4.0 %	5.0 ± 4.0 %
	Gran	33.0 ± 9.0 %	33.0 ± 9.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	81.5 ± 9.0 %	81.5 ± 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 ± 0.5 × 10 <sup>3</sup> /μL	0.5 ± 0.5 × 10 <sup>9</sup> /L	1.0 ± 0.8 × 10 <sup>3</sup> /μL	1.0 ± 0.8 × 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	16.6 ± 1.9 × 10 <sup>3</sup> /μL	16.6 ± 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	21.1 ± 2.5 × 10 <sup>3</sup> /μL
RBC		2.39 ± 0.18 × 10 <sup>6</sup> /μL	2.39 ± 0.18 × 10 <sup>12</sup> /L	4.84 ± 0.24 × 10 <sup>6</sup> /μL	4.84 ± 0.24 × 10 <sup>12</sup> /L	5.82 ± 0.30 × 10 <sup>6</sup> /μL	5.82 ± 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	18.5 ± 0.8 g/dL	185 ± 8 g/L
HCT		17.9 ± 1.5 %	17.9 ± 1.5 %	40.9 ± 2.0 %	40.9 ± 2.0 %	54.1 ± 2.4 %	54.1 ± 2.4 %
MCV		75.0 ± 5.0 fL	75.0 ± 5.0 fL	84.5 ± 5.0 fL	84.5 ± 5.0 fL	93.0 ± 5.0 fL	93.0 ± 5.0 fL
MCH		24.7 ± 2.5 pg	24.7 ± 2.5 pg	28.5 ± 2.5 pg	28.5 ± 2.5 pg	31.8 ± 2.5 pg	31.8 ± 2.5 pg
MCHC		32.9 ± 3.0 g/dL	329 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 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		35.5 ± 8.0 fL	35.5 ± 8.0 fL	38.5 ± 8.0 fL	38.5 ± 8.0 fL	43.5 ± 8.0 fL	43.5 ± 8.0 fL
PLT		64 ± 20 × 10 <sup>3</sup> /μL	64 ± 20 × 10 <sup>9</sup> /L	265 ± 40 × 10 <sup>3</sup> /μL	265 ± 40 × 10 <sup>9</sup> /L	540 ± 60 × 10 <sup>3</sup> /μL	540 ± 60 × 10 <sup>9</sup> /L
MPV		9.0 ± 3.0 fL	9.0 ± 3.0 fL	9.2 ± 3.0 fL	9.2 ± 3.0 fL	9.1 ± 3.0 fL	9.1 ± 3.0 fL
*PCT		0.060 ± 0.050 %	0.060 ± 0.050 %	0.250 ± 0.100 %	0.250 ± 0.100 %	0.480 ± 0.200 %	0.480 ± 0.200 %
*PDW		15.2 ± 3.0	15.2 ± 3.0	15.6 ± 3.0	15.6 ± 3.0	15.9 ± 3.0	15.9 ± 3.0
*P-LCC		22 ± 10 × 10 <sup>3</sup> /μL	22 ± 10 × 10 <sup>9</sup> /L	85 ± 22 × 10 <sup>3</sup> /μL	85 ± 22 × 10 <sup>9</sup> /L	170 ± 30 × 10 <sup>3</sup> /μL	170 ± 30 × 10 <sup>9</sup> /L
*P-LCR		31.0 ± 9.0 %	31.0 ± 9.0 %	32.0 ± 9.0 %	32.0 ± 9.0 %	31.5 ± 9.0 %	31.5 ± 9.0 %
Lymph		58.0 ± 9.0 %	58.0 ± 9.0 %	30.5 ± 8.0 %	30.5 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
Mid		10.0 ± 8.0 %	10.0 ± 8.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %
Gran	32.0 ± 8.0 %	32.0 ± 8.0 %	61.5 ± 8.0 %	61.5 ± 8.0 %	79.5 ± 9.0 %	79.5 ± 9.0 %	
Lymph#	1.2 ± 0.2 × 10 <sup>3</sup> /μL	1.2 ± 0.2 × 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	0.6 ± 0.6 × 10 <sup>3</sup> /μL	0.6 ± 0.6 × 10 <sup>9</sup> /L	1.5 ± 1.3 × 10 <sup>3</sup> /μL	1.5 ± 1.3 × 10 <sup>9</sup> /L	
Gran#	0.6 ± 0.3 × 10 <sup>3</sup> /μL	0.6 ± 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	16.8 ± 2.0 × 10 <sup>3</sup> /μL	16.8 ± 2.0 × 10 <sup>9</sup> /L	

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

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# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0219



2019-05-05

Instrument	Parameter	Low		Normal		High	
		LOT B0219L		LOT B0219N		LOT B0219H	
		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>3</sup> /μL	2.1 ± 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	21.8 ± 2.5 × 10 <sup>3</sup> /μL	21.8 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.36 ± 0.18 × 10 <sup>6</sup> /μL	2.36 ± 0.18 × 10 <sup>12</sup> /L	4.78 ± 0.24 × 10 <sup>6</sup> /μL	4.78 ± 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	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	18.7 ± 0.8 g/dL	187 ± 8 g/L
	HCT	17.8 ± 1.5 %	17.8 ± 1.5 %	41.1 ± 2.0 %	41.1 ± 2.0 %	55.0 ± 2.4 %	55.0 ± 2.4 %
	MCV	75.5 ± 5.0 fL	75.5 ± 5.0 fL	86.0 ± 5.0 fL	86.0 ± 5.0 fL	95.5 ± 5.0 fL	95.5 ± 5.0 fL
	MCH	25.4 ± 2.5 pg	25.4 ± 2.5 pg	29.1 ± 2.5 pg	29.1 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
	MCHC	33.7 ± 3.0 g/dL	337 ± 30 g/L	33.8 ± 3.0 g/dL	338 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 30 g/L
	*RDW	14.5 ± 3.0 %	14.5 ± 3.0 %	13.7 ± 3.0 %	13.7 ± 3.0 %	13.2 ± 3.0 %	13.2 ± 3.0 %
	PLT	76 ± 20 × 10 <sup>3</sup> /μL	76 ± 20 × 10 <sup>9</sup> /L	258 ± 40 × 10 <sup>3</sup> /μL	258 ± 40 × 10 <sup>9</sup> /L	505 ± 60 × 10 <sup>3</sup> /μL	505 ± 60 × 10 <sup>9</sup> /L
	*MPV	8.6 ± 3.0 fL	8.6 ± 3.0 fL	8.3 ± 3.0 fL	8.3 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL
	Lymph	53.0 ± 12.0 %	53.0 ± 12.0 %	29.5 ± 8.0 %	29.5 ± 8.0 %	14.0 ± 6.0 %	14.0 ± 6.0 %
	*Mid	12.0 ± 9.0 %	12.0 ± 9.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %
	Gran	35.0 ± 10.0 %	35.0 ± 10.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	78.0 ± 8.0 %	78.0 ± 8.0 %
	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	3.1 ± 1.4 × 10 <sup>3</sup> /μL	3.1 ± 1.4 × 10 <sup>9</sup> /L
	*Mid#	0.3 ± 0.3 × 10 <sup>3</sup> /μL	0.3 ± 0.3 × 10 <sup>9</sup> /L	0.6 ± 0.6 × 10 <sup>3</sup> /μL	0.6 ± 0.6 × 10 <sup>9</sup> /L	1.7 ± 1.5 × 10 <sup>3</sup> /μL	1.7 ± 1.5 × 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	17.0 ± 1.8 × 10 <sup>3</sup> /μL	17.0 ± 1.8 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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