

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0818



2018-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0818L	LOT B0818L	LOT B0818N	LOT B0818N	LOT B0818H	LOT B0818H
		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	20.6 ± 2.5 × 10 <sup>3</sup> /μL	20.6 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.43 ± 0.18 × 10 <sup>6</sup> /μL	2.43 ± 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	5.80 ± 0.30 × 10 <sup>6</sup> /μL	5.80 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	18.3 ± 1.5 %	18.3 ± 1.5 %	39.3 ± 2.0 %	39.3 ± 2.0 %	53.4 ± 2.4 %	53.4 ± 2.4 %
	MCV	75.5 ± 5.0 fL	75.5 ± 5.0 fL	84.0 ± 5.0 fL	84.0 ± 5.0 fL	92.0 ± 5.0 fL	92.0 ± 5.0 fL
	MCH	24.7 ± 2.5 pg	24.7 ± 2.5 pg	29.3 ± 2.5 pg	29.3 ± 2.5 pg	32.6 ± 2.5 pg	32.6 ± 2.5 pg
	MCHC	32.7 ± 3.0 g/dL	327 ± 30 g/L	34.8 ± 3.0 g/dL	348 ± 30 g/L	35.4 ± 3.0 g/dL	354 ± 30 g/L
	RDW	14.5 ± 3.0 %	14.5 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 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	260 ± 40 × 10 <sup>3</sup> /μL	260 ± 40 × 10 <sup>9</sup> /L	545 ± 60 × 10 <sup>3</sup> /μL	545 ± 60 × 10 <sup>9</sup> /L
	MPV	7.3 ± 3.0 fL	7.3 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.3 ± 3.0 fL	8.3 ± 3.0 fL
	Lymph	60.0 ± 12.0 %	60.0 ± 12.0 %	33.5 ± 8.0 %	33.5 ± 8.0 %	14.5 ± 8.0 %	14.5 ± 8.0 %
	Mid	8.5 ± 8.0 %	8.5 ± 8.0 %	5.5 ± 5.0 %	5.5 ± 5.0 %	4.5 ± 3.0 %	4.5 ± 3.0 %
	Gran	31.5 ± 9.0 %	31.5 ± 9.0 %	61.0 ± 8.0 %	61.0 ± 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	2.6 ± 0.7 × 10 <sup>3</sup> /μL	2.6 ± 0.7 × 10 <sup>9</sup> /L	3.0 ± 1.7 × 10 <sup>3</sup> /μL	3.0 ± 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	0.4 ± 0.4 × 10 <sup>3</sup> /μL	0.4 ± 0.4 × 10 <sup>9</sup> /L	0.9 ± 0.7 × 10 <sup>3</sup> /μL	0.9 ± 0.7 × 10 <sup>9</sup> /L
	Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	4.7 ± 0.7 × 10 <sup>3</sup> /μL	4.7 ± 0.7 × 10 <sup>9</sup> /L	16.7 ± 1.9 × 10 <sup>3</sup> /μL	16.7 ± 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	7.5 ± 1.0 × 10 <sup>3</sup> /μL	7.5 ± 1.0 × 10 <sup>9</sup> /L	20.6 ± 2.5 × 10 <sup>3</sup> /μL
RBC		2.45 ± 0.18 × 10 <sup>6</sup> /μL	2.45 ± 0.18 × 10 <sup>12</sup> /L	4.70 ± 0.24 × 10 <sup>6</sup> /μL	4.70 ± 0.24 × 10 <sup>12</sup> /L	5.85 ± 0.30 × 10 <sup>6</sup> /μL	5.85 ± 0.30 × 10 <sup>12</sup> /L
HGB		6.2 ± 0.4 g/dL	62 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.5 ± 0.8 g/dL	185 ± 8 g/L
HCT		18.6 ± 1.5 %	18.6 ± 1.5 %	39.7 ± 2.0 %	39.7 ± 2.0 %	53.8 ± 2.4 %	53.8 ± 2.4 %
MCV		76.0 ± 5.0 fL	76.0 ± 5.0 fL	84.5 ± 5.0 fL	84.5 ± 5.0 fL	92.0 ± 5.0 fL	92.0 ± 5.0 fL
MCH		25.3 ± 2.5 pg	25.3 ± 2.5 pg	28.9 ± 2.5 pg	28.9 ± 2.5 pg	31.6 ± 2.5 pg	31.6 ± 2.5 pg
MCHC		33.3 ± 3.0 g/dL	333 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 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		35.0 ± 8.0 fL	35.0 ± 8.0 fL	39.0 ± 8.0 fL	39.0 ± 8.0 fL	42.0 ± 8.0 fL	42.0 ± 8.0 fL
PLT		72 ± 20 × 10 <sup>3</sup> /μL	72 ± 20 × 10 <sup>9</sup> /L	264 ± 40 × 10 <sup>3</sup> /μL	264 ± 40 × 10 <sup>9</sup> /L	544 ± 60 × 10 <sup>3</sup> /μL	544 ± 60 × 10 <sup>9</sup> /L
MPV		8.5 ± 3.0 fL	8.5 ± 3.0 fL	9.2 ± 3.0 fL	9.2 ± 3.0 fL	9.5 ± 3.0 fL	9.5 ± 3.0 fL
*PCT		0.060 ± 0.050 %	0.060 ± 0.050 %	0.250 ± 0.100 %	0.250 ± 0.100 %	0.520 ± 0.200 %	0.520 ± 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		20 ± 10 × 10 <sup>3</sup> /μL	20 ± 10 × 10 <sup>9</sup> /L	86 ± 22 × 10 <sup>3</sup> /μL	86 ± 22 × 10 <sup>9</sup> /L	190 ± 30 × 10 <sup>3</sup> /μL	190 ± 30 × 10 <sup>9</sup> /L
*P-LCR		27.0 ± 9.0 %	27.0 ± 9.0 %	33.0 ± 9.0 %	33.0 ± 9.0 %	35.0 ± 9.0 %	35.0 ± 9.0 %
Lymph		59.0 ± 9.0 %	59.0 ± 9.0 %	32.0 ± 8.0 %	32.0 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
Mid		10.0 ± 8.0 %	10.0 ± 8.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %	5.5 ± 4.0 %	5.5 ± 4.0 %
Gran	31.0 ± 8.0 %	31.0 ± 8.0 %	61.0 ± 8.0 %	61.0 ± 8.0 %	81.0 ± 9.0 %	81.0 ± 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	0.5 ± 0.5 × 10 <sup>3</sup> /μL	0.5 ± 0.5 × 10 <sup>9</sup> /L	1.1 ± 0.9 × 10 <sup>3</sup> /μL	1.1 ± 0.9 × 10 <sup>9</sup> /L	
Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	4.6 ± 0.7 × 10 <sup>3</sup> /μL	4.6 ± 0.7 × 10 <sup>9</sup> /L	16.7 ± 1.9 × 10 <sup>3</sup> /μL	16.7 ± 1.9 × 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
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## ASSAY VALUES AND EXPECTED RANGES

LOT	B0818
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2018-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0818L		LOT B0818N		LOT B0818H	
		The U.S. Units	The International Units	The U.S. Units	The International Units	The U.S. Units	The International Units
BC-3200	WBC	2.0 ± 0.5 × 10 <sup>3</sup> /μL	2.0 ± 0.5 × 10 <sup>9</sup> /L	8.0 ± 1.0 × 10 <sup>3</sup> /μL	8.0 ± 1.0 × 10 <sup>9</sup> /L	21.5 ± 2.5 × 10 <sup>3</sup> /μL	21.5 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.40 ± 0.18 × 10 <sup>6</sup> /μL	2.40 ± 0.18 × 10 <sup>12</sup> /L	4.64 ± 0.24 × 10 <sup>6</sup> /μL	4.64 ± 0.24 × 10 <sup>12</sup> /L	5.78 ± 0.30 × 10 <sup>6</sup> /μL	5.78 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.1 ± 0.4 g/dL	61 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	18.5 ± 1.5 %	18.5 ± 1.5 %	40.6 ± 2.0 %	40.6 ± 2.0 %	54.9 ± 2.4 %	54.9 ± 2.4 %
	MCV	77.0 ± 5.0 fL	77.0 ± 5.0 fL	87.5 ± 5.0 fL	87.5 ± 5.0 fL	95.0 ± 5.0 fL	95.0 ± 5.0 fL
	MCH	25.4 ± 2.5 pg	25.4 ± 2.5 pg	29.5 ± 2.5 pg	29.5 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
	MCHC	33.0 ± 3.0 g/dL	330 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L
	*RDW	14.0 ± 3.0 %	14.0 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %	13.0 ± 3.0 %	13.0 ± 3.0 %
	PLT	82 ± 20 × 10 <sup>3</sup> /μL	82 ± 20 × 10 <sup>9</sup> /L	262 ± 40 × 10 <sup>3</sup> /μL	262 ± 40 × 10 <sup>9</sup> /L	510 ± 60 × 10 <sup>3</sup> /μL	510 ± 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	53.5 ± 12.0 %	53.5 ± 12.0 %	29.5 ± 8.0 %	29.5 ± 8.0 %	12.5 ± 6.0 %	12.5 ± 6.0 %
	*Mid	13.0 ± 9.0 %	13.0 ± 9.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	5.0 ± 4.0 %	5.0 ± 4.0 %
	Gran	33.5 ± 10.0 %	33.5 ± 10.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	82.5 ± 8.0 %	82.5 ± 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	2.7 ± 1.3 × 10 <sup>3</sup> /μL	2.7 ± 1.3 × 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	1.1 ± 0.9 × 10 <sup>3</sup> /μL	1.1 ± 0.9 × 10 <sup>9</sup> /L
	Gran#	0.7 ± 0.3 × 10 <sup>3</sup> /μL	0.7 ± 0.3 × 10 <sup>9</sup> /L	5.0 ± 0.7 × 10 <sup>3</sup> /μL	5.0 ± 0.7 × 10 <sup>9</sup> /L	17.7 ± 1.8 × 10 <sup>3</sup> /μL	17.7 ± 1.8 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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