

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0218



2018-05-05

Instrument	Parameter	Low		Normal		High	
		LOT B0218L	LOT B0218L	LOT B0218N	LOT B0218N	LOT B0218H	LOT B0218H
		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 <sup>3</sup> /μL	1.9 ± 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	20.2 ± 2.5 × 10 <sup>3</sup> /μL	20.2 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.41 ± 0.18 × 10 <sup>6</sup> /μL	2.41 ± 0.18 × 10 <sup>12</sup> /L	4.77 ± 0.24 × 10 <sup>6</sup> /μL	4.77 ± 0.24 × 10 <sup>12</sup> /L	5.89 ± 0.30 × 10 <sup>6</sup> /μL	5.89 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.8 ± 0.6 g/dL	138 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	18.2 ± 1.5 %	18.2 ± 1.5 %	40.1 ± 2.0 %	40.1 ± 2.0 %	53.6 ± 2.4 %	53.6 ± 2.4 %
	MCV	75.5 ± 5.0 fL	75.5 ± 5.0 fL	84.0 ± 5.0 fL	84.0 ± 5.0 fL	91.0 ± 5.0 fL	91.0 ± 5.0 fL
	MCH	24.9 ± 2.5 pg	24.9 ± 2.5 pg	28.9 ± 2.5 pg	28.9 ± 2.5 pg	32.1 ± 2.5 pg	32.1 ± 2.5 pg
	MCHC	33.0 ± 3.0 g/dL	330 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 30 g/L	35.3 ± 3.0 g/dL	353 ± 30 g/L
	RDW	14.5 ± 3.0 %	14.5 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %	13.0 ± 3.0 %	13.0 ± 3.0 %
	PLT	67 ± 20 × 10 <sup>3</sup> /μL	67 ± 20 × 10 <sup>9</sup> /L	261 ± 40 × 10 <sup>3</sup> /μL	261 ± 40 × 10 <sup>9</sup> /L	516 ± 60 × 10 <sup>3</sup> /μL	516 ± 60 × 10 <sup>9</sup> /L
	MPV	7.7 ± 3.0 fL	7.7 ± 3.0 fL	7.8 ± 3.0 fL	7.8 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL
	Lymph	60.1 ± 12.0 %	60.1 ± 12.0 %	30.9 ± 8.0 %	30.9 ± 8.0 %	14.3 ± 8.0 %	14.3 ± 8.0 %
	Mid	8.5 ± 8.0 %	8.5 ± 8.0 %	6.6 ± 6.0 %	6.6 ± 6.0 %	3.9 ± 3.0 %	3.9 ± 3.0 %
	Gran	31.4 ± 9.0 %	31.4 ± 9.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	81.8 ± 9.0 %	81.8 ± 9.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.3 ± 0.6 × 10 <sup>3</sup> /μL	2.3 ± 0.6 × 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	0.5 ± 0.5 × 10 <sup>3</sup> /μL	0.5 ± 0.5 × 10 <sup>9</sup> /L	0.8 ± 0.7 × 10 <sup>3</sup> /μL	0.8 ± 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	4.8 ± 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
	BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	1.9 ± 0.5 × 10 <sup>3</sup> /μL	1.9 ± 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
RBC		2.43 ± 0.18 × 10 <sup>6</sup> /μL	2.43 ± 0.18 × 10 <sup>12</sup> /L	4.79 ± 0.24 × 10 <sup>6</sup> /μL	4.79 ± 0.24 × 10 <sup>12</sup> /L	5.90 ± 0.30 × 10 <sup>6</sup> /μL	5.90 ± 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	18.7 ± 0.8 g/dL	187 ± 8 g/L
HCT		18.6 ± 1.5 %	18.6 ± 1.5 %	40.2 ± 2.0 %	40.2 ± 2.0 %	54.0 ± 2.4 %	54.0 ± 2.4 %
MCV		76.5 ± 5.0 fL	76.5 ± 5.0 fL	84.0 ± 5.0 fL	84.0 ± 5.0 fL	91.5 ± 5.0 fL	91.5 ± 5.0 fL
MCH		25.5 ± 2.5 pg	25.5 ± 2.5 pg	28.6 ± 2.5 pg	28.6 ± 2.5 pg	31.7 ± 2.5 pg	31.7 ± 2.5 pg
MCHC		33.4 ± 3.0 g/dL	334 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 30 g/L	34.6 ± 3.0 g/dL	346 ± 30 g/L
RDW-CV		16.0 ± 3.0 %	16.0 ± 3.0 %	15.0 ± 3.0 %	15.0 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %
RDW-SD		35.5 ± 8.0 fL	35.5 ± 8.0 fL	40.0 ± 8.0 fL	40.0 ± 8.0 fL	44.5 ± 8.0 fL	44.5 ± 8.0 fL
PLT		69 ± 20 × 10 <sup>3</sup> /μL	69 ± 20 × 10 <sup>9</sup> /L	265 ± 40 × 10 <sup>3</sup> /μL	265 ± 40 × 10 <sup>9</sup> /L	526 ± 60 × 10 <sup>3</sup> /μL	526 ± 60 × 10 <sup>9</sup> /L
MPV		9.0 ± 3.0 fL	9.0 ± 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 %	0.470 ± 0.200 %	0.470 ± 0.200 %
*PDW		15.4 ± 3.0	15.4 ± 3.0	15.6 ± 3.0	15.6 ± 3.0	15.8 ± 3.0	15.8 ± 3.0
*P-LCC		22 ± 10 × 10 <sup>3</sup> /μL	22 ± 10 × 10 <sup>9</sup> /L	80 ± 22 × 10 <sup>3</sup> /μL	80 ± 22 × 10 <sup>9</sup> /L	165 ± 30 × 10 <sup>3</sup> /μL	165 ± 30 × 10 <sup>9</sup> /L
*P-LCR		28.0 ± 9.0 %	28.0 ± 9.0 %	29.0 ± 9.0 %	29.0 ± 9.0 %	31.5 ± 9.0 %	31.5 ± 9.0 %
Lymph		58.4 ± 9.0 %	58.4 ± 9.0 %	30.8 ± 8.0 %	30.8 ± 8.0 %	13.8 ± 8.0 %	13.8 ± 8.0 %
Mid		11.6 ± 8.0 %	11.6 ± 8.0 %	8.3 ± 7.0 %	8.3 ± 7.0 %	4.9 ± 4.0 %	4.9 ± 4.0 %
Gran	30.0 ± 8.0 %	30.0 ± 8.0 %	60.9 ± 8.0 %	60.9 ± 8.0 %	81.3 ± 9.0 %	81.3 ± 9.0 %	
Lymph#	1.1 ± 0.2 × 10 <sup>3</sup> /μL	1.1 ± 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	1.0 ± 0.9 × 10 <sup>3</sup> /μL	1.0 ± 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	4.7 ± 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	

\* 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	B0218
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2018-05-05

Instrument	Parameter	Low		Normal		High	
		LOT B0218L		LOT B0218N		LOT B0218H	
		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	21.6 ± 2.5 × 10 <sup>3</sup> /μL	21.6 ± 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	4.67 ± 0.24 × 10 <sup>6</sup> /μL	4.67 ± 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	6.1 ± 0.4 g/dL	61 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.6 ± 0.8 g/dL	186 ± 8 g/L
	HCT	18.3 ± 1.5 %	18.3 ± 1.5 %	40.4 ± 2.0 %	40.4 ± 2.0 %	54.4 ± 2.4 %	54.4 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	86.5 ± 5.0 fL	86.5 ± 5.0 fL	94.5 ± 5.0 fL	94.5 ± 5.0 fL
	MCH	25.5 ± 2.5 pg	25.5 ± 2.5 pg	29.3 ± 2.5 pg	29.3 ± 2.5 pg	32.3 ± 2.5 pg	32.3 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	33.9 ± 3.0 g/dL	339 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L
	*RDW	14.5 ± 3.0 %	14.5 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %	12.5 ± 3.0 %	12.5 ± 3.0 %
	PLT	80 ± 20 × 10 <sup>3</sup> /μL	80 ± 20 × 10 <sup>9</sup> /L	260 ± 40 × 10 <sup>3</sup> /μL	260 ± 40 × 10 <sup>9</sup> /L	499 ± 60 × 10 <sup>3</sup> /μL	499 ± 60 × 10 <sup>9</sup> /L
	*MPV	8.3 ± 3.0 fL	8.3 ± 3.0 fL	7.6 ± 3.0 fL	7.6 ± 3.0 fL	7.7 ± 3.0 fL	7.7 ± 3.0 fL
	Lymph	54.0 ± 12.0 %	54.0 ± 12.0 %	29.3 ± 8.0 %	29.3 ± 8.0 %	13.1 ± 6.0 %	13.1 ± 6.0 %
	*Mid	11.0 ± 9.0 %	11.0 ± 9.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	4.7 ± 4.0 %	4.7 ± 4.0 %
	Gran	35.0 ± 10.0 %	35.0 ± 10.0 %	62.7 ± 8.1 %	62.7 ± 8.1 %	82.2 ± 8.0 %	82.2 ± 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	2.8 ± 1.3 × 10 <sup>3</sup> /μL	2.8 ± 1.3 × 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	1.0 ± 0.9 × 10 <sup>3</sup> /μL	1.0 ± 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	5.1 ± 0.7 × 10 <sup>3</sup> /μL	5.1 ± 0.7 × 10 <sup>9</sup> /L	17.8 ± 1.8 × 10 <sup>3</sup> /μL	17.8 ± 1.8 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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