

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0819



2019-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0819L	LOT B0819L	LOT B0819N	LOT B0819N	LOT B0819H	LOT B0819H
		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	2.1 ± 0.5 × 10 <sup>3</sup> /μL	2.1 ± 0.5 × 10 <sup>9</sup> /L	8.2 ± 1.0 × 10 <sup>3</sup> /μL	8.2 ± 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	2.40 ± 0.18 × 10 <sup>6</sup> /μL	2.40 ± 0.18 × 10 <sup>12</sup> /L	4.65 ± 0.24 × 10 <sup>6</sup> /μL	4.65 ± 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	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	18.4 ± 1.5 %	18.4 ± 1.5 %	39.5 ± 2.0 %	39.5 ± 2.0 %	53.5 ± 2.4 %	53.5 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	85.0 ± 5.0 fL	85.0 ± 5.0 fL	92.5 ± 5.0 fL	92.5 ± 5.0 fL
	MCH	25.0 ± 2.5 pg	25.0 ± 2.5 pg	29.2 ± 2.5 pg	29.2 ± 2.5 pg	32.7 ± 2.5 pg	32.7 ± 2.5 pg
	MCHC	32.7 ± 3.0 g/dL	327 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 30 g/L	35.4 ± 3.0 g/dL	354 ± 30 g/L
	RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	14.3 ± 3.0 %	14.3 ± 3.0 %	13.9 ± 3.0 %	13.9 ± 3.0 %
	PLT	63 ± 20 × 10 <sup>3</sup> /μL	63 ± 20 × 10 <sup>9</sup> /L	259 ± 40 × 10 <sup>3</sup> /μL	259 ± 40 × 10 <sup>9</sup> /L	547 ± 60 × 10 <sup>3</sup> /μL	547 ± 60 × 10 <sup>9</sup> /L
	MPV	8.1 ± 3.0 fL	8.1 ± 3.0 fL	8.1 ± 3.0 fL	8.1 ± 3.0 fL	8.2 ± 3.0 fL	8.2 ± 3.0 fL
	Lymph	60.0 ± 12.0 %	60.0 ± 12.0 %	31.4 ± 8.0 %	31.4 ± 8.0 %	13.0 ± 8.0 %	13.0 ± 8.0 %
	Mid	9.5 ± 8.0 %	9.5 ± 8.0 %	7.3 ± 6.0 %	7.3 ± 6.0 %	4.0 ± 4.0 %	4.0 ± 4.0 %
	Gran	30.5 ± 9.0 %	30.5 ± 9.0 %	61.3 ± 8.0 %	61.3 ± 8.0 %	83.0 ± 9.0 %	83.0 ± 9.0 %
	Lymph#	1.3 ± 0.3 × 10 <sup>3</sup> /μL	1.3 ± 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	2.7 ± 1.7 × 10 <sup>3</sup> /μL	2.7 ± 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 ± 0.5 × 10 <sup>3</sup> /μL	0.6 ± 0.5 × 10 <sup>9</sup> /L	0.8 ± 0.8 × 10 <sup>3</sup> /μL	0.8 ± 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	5.0 ± 0.7 × 10 <sup>3</sup> /μL	5.0 ± 0.7 × 10 <sup>9</sup> /L	17.2 ± 1.9 × 10 <sup>3</sup> /μL	17.2 ± 1.9 × 10 <sup>9</sup> /L
	BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	2.1 ± 0.5 × 10 <sup>3</sup> /μL	2.1 ± 0.5 × 10 <sup>9</sup> /L	8.2 ± 1.0 × 10 <sup>3</sup> /μL	8.2 ± 1.0 × 10 <sup>9</sup> /L	21.1 ± 2.5 × 10 <sup>3</sup> /μL
RBC		2.48 ± 0.18 × 10 <sup>6</sup> /μL	2.48 ± 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	5.83 ± 0.30 × 10 <sup>6</sup> /μL	5.83 ± 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		18.8 ± 1.5 %	18.8 ± 1.5 %	40.4 ± 2.0 %	40.4 ± 2.0 %	53.9 ± 2.4 %	53.9 ± 2.4 %
MCV		76.0 ± 5.0 fL	76.0 ± 5.0 fL	85.0 ± 5.0 fL	85.0 ± 5.0 fL	92.5 ± 5.0 fL	92.5 ± 5.0 fL
MCH		25.0 ± 2.5 pg	25.0 ± 2.5 pg	28.6 ± 2.5 pg	28.6 ± 2.5 pg	31.7 ± 2.5 pg	31.7 ± 2.5 pg
MCHC		32.9 ± 3.0 g/dL	329 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L
RDW-CV		16.2 ± 3.0 %	16.2 ± 3.0 %	15.0 ± 3.0 %	15.0 ± 3.0 %	14.2 ± 3.0 %	14.2 ± 3.0 %
RDW-SD		35.0 ± 8.0 fL	35.0 ± 8.0 fL	38.5 ± 8.0 fL	38.5 ± 8.0 fL	41.5 ± 8.0 fL	41.5 ± 8.0 fL
PLT		66 ± 20 × 10 <sup>3</sup> /μL	66 ± 20 × 10 <sup>9</sup> /L	262 ± 40 × 10 <sup>3</sup> /μL	262 ± 40 × 10 <sup>9</sup> /L	540 ± 60 × 10 <sup>3</sup> /μL	540 ± 60 × 10 <sup>9</sup> /L
MPV		9.1 ± 3.0 fL	9.1 ± 3.0 fL	9.1 ± 3.0 fL	9.1 ± 3.0 fL	9.0 ± 3.0 fL	9.0 ± 3.0 fL
*PCT		0.060 ± 0.050 %	0.060 ± 0.050 %	0.240 ± 0.100 %	0.240 ± 0.100 %	0.480 ± 0.200 %	0.480 ± 0.200 %
*PDW		15.3 ± 3.0	15.3 ± 3.0	15.7 ± 3.0	15.7 ± 3.0	15.9 ± 3.0	15.9 ± 3.0
*P-LCC		20 ± 10 × 10 <sup>3</sup> /μL	20 ± 10 × 10 <sup>9</sup> /L	80 ± 22 × 10 <sup>3</sup> /μL	80 ± 22 × 10 <sup>9</sup> /L	160 ± 30 × 10 <sup>3</sup> /μL	160 ± 30 × 10 <sup>9</sup> /L
*P-LCR		30.0 ± 9.0 %	30.0 ± 9.0 %	31.0 ± 9.0 %	31.0 ± 9.0 %	30.0 ± 9.0 %	30.0 ± 9.0 %
Lymph		59.5 ± 9.0 %	59.5 ± 9.0 %	29.5 ± 8.0 %	29.5 ± 8.0 %	12.5 ± 8.0 %	12.5 ± 8.0 %
Mid		12.0 ± 8.0 %	12.0 ± 8.0 %	9.5 ± 8.0 %	9.5 ± 8.0 %	5.5 ± 5.0 %	5.5 ± 5.0 %
Gran	28.5 ± 9.0 %	28.5 ± 9.0 %	61.0 ± 8.0 %	61.0 ± 8.0 %	82.0 ± 9.0 %	82.0 ± 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	2.6 ± 1.7 × 10 <sup>3</sup> /μL	2.6 ± 1.7 × 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 ± 0.7 × 10 <sup>3</sup> /μL	0.8 ± 0.7 × 10 <sup>9</sup> /L	1.2 ± 1.2 × 10 <sup>3</sup> /μL	1.2 ± 1.2 × 10 <sup>9</sup> /L	
Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	5.0 ± 0.7 × 10 <sup>3</sup> /μL	5.0 ± 0.7 × 10 <sup>9</sup> /L	17.3 ± 1.9 × 10 <sup>3</sup> /μL	17.3 ± 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

## ASSAY VALUES AND EXPECTED RANGES

LOT B0819



2019-11-05

Instrument	Parameter	Low LOT B0819L		Normal LOT B0819N		High LOT B0819H	
		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	8.7 ± 1.0 × 10 <sup>3</sup> /μL	8.7 ± 1.0 × 10 <sup>9</sup> /L	22.2 ± 2.5 × 10 <sup>3</sup> /μL	22.2 ± 2.5 × 10 <sup>9</sup> /L
	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	5.82 ± 0.30 × 10 <sup>6</sup> /μL	5.82 ± 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	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	18.5 ± 1.5 %	18.5 ± 1.5 %	40.7 ± 2.0 %	40.7 ± 2.0 %	55.3 ± 2.4 %	55.3 ± 2.4 %
	MCV	75.5 ± 5.0 fL	75.5 ± 5.0 fL	86.5 ± 5.0 fL	86.5 ± 5.0 fL	95.0 ± 5.0 fL	95.0 ± 5.0 fL
	MCH	25.3 ± 2.5 pg	25.3 ± 2.5 pg	29.1 ± 2.5 pg	29.1 ± 2.5 pg	32.3 ± 2.5 pg	32.3 ± 2.5 pg
	MCHC	33.5 ± 3.0 g/dL	335 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 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	75 ± 20 × 10 <sup>3</sup> /μL	75 ± 20 × 10 <sup>9</sup> /L	260 ± 40 × 10 <sup>3</sup> /μL	260 ± 40 × 10 <sup>9</sup> /L	520 ± 60 × 10 <sup>3</sup> /μL	520 ± 60 × 10 <sup>9</sup> /L
	*MPV	8.5 ± 3.0 fL	8.5 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL
	Lymph	53.3 ± 12.0 %	53.3 ± 12.0 %	29.5 ± 8.0 %	29.5 ± 8.0 %	12.5 ± 6.0 %	12.5 ± 6.0 %
	*Mid	15.0 ± 9.0 %	15.0 ± 9.0 %	8.5 ± 7.0 %	8.5 ± 7.0 %	6.0 ± 5.0 %	6.0 ± 5.0 %
	Gran	31.7 ± 10.0 %	31.7 ± 10.0 %	62.0 ± 8.0 %	62.0 ± 8.0 %	81.5 ± 8.0 %	81.5 ± 8.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.6 ± 0.8 × 10 <sup>3</sup> /μL	2.6 ± 0.8 × 10 <sup>9</sup> /L	2.8 ± 1.4 × 10 <sup>3</sup> /μL	2.8 ± 1.4 × 10 <sup>9</sup> /L
	*Mid#	0.3 ± 0.2 × 10 <sup>3</sup> /μL	0.3 ± 0.2 × 10 <sup>9</sup> /L	0.7 ± 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	5.4 ± 0.7 × 10 <sup>3</sup> /μL	5.4 ± 0.7 × 10 <sup>9</sup> /L	18.1 ± 1.8 × 10 <sup>3</sup> /μL	18.1 ± 1.8 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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