







BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

 **B0519**
**2019-08-05**

Instrument	Parameter	Low		Normal		High	
		 B0519L	 B0519L	 B0519N	 B0519H	 B0519H	 B0519H
		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 ³ /μL	1.9 ± 0.5 × 10 ⁹ /L	7.8 ± 1.0 × 10 ³ /μL	7.8 ± 1.0 × 10 ⁹ /L	20.5 ± 2.5 × 10 ³ /μL	20.5 ± 2.5 × 10 ⁹ /L
	RBC	2.29 ± 0.18 × 10 ⁶ /μL	2.29 ± 0.18 × 10 ¹² /L	4.65 ± 0.24 × 10 ⁶ /μL	4.65 ± 0.24 × 10 ¹² /L	5.65 ± 0.30 × 10 ⁶ /μL	5.65 ± 0.30 × 10 ¹² /L
	HGB	5.8 ± 0.4 g/dL	58 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	17.4 ± 1.5 %	17.4 ± 1.5 %	39.5 ± 2.0 %	39.5 ± 2.0 %	53.4 ± 2.4 %	53.4 ± 2.4 %
	MCV	76.0 ± 5.0 fL	76.0 ± 5.0 fL	85.0 ± 5.0 fL	85.0 ± 5.0 fL	94.5 ± 5.0 fL	94.5 ± 5.0 fL
	MCH	25.3 ± 2.5 pg	25.3 ± 2.5 pg	29.5 ± 2.5 pg	29.5 ± 2.5 pg	33.3 ± 2.5 pg	33.3 ± 2.5 pg
	MCHC	33.3 ± 3.0 g/dL	333 ± 30 g/L	34.7 ± 3.0 g/dL	347 ± 30 g/L	35.2 ± 3.0 g/dL	352 ± 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	65 ± 20 × 10 ³ /μL	65 ± 20 × 10 ⁹ /L	258 ± 40 × 10 ³ /μL	258 ± 40 × 10 ⁹ /L	555 ± 60 × 10 ³ /μL	555 ± 60 × 10 ⁹ /L
	MPV	8.4 ± 3.0 fL	8.4 ± 3.0 fL	8.3 ± 3.0 fL	8.3 ± 3.0 fL	8.5 ± 3.0 fL	8.5 ± 3.0 fL
	Lymph	60.0 ± 12.0 %	60.0 ± 12.0 %	30.5 ± 8.0 %	30.5 ± 8.0 %	14.0 ± 8.0 %	14.0 ± 8.0 %
	Mid	8.5 ± 7.0 %	8.5 ± 7.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %	4.0 ± 3.0 %	4.0 ± 3.0 %
	Gran	31.5 ± 9.0 %	31.5 ± 9.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	82.0 ± 9.0 %	82.0 ± 9.0 %
	Lymph#	1.1 ± 0.3 × 10 ³ /μL	1.1 ± 0.3 × 10 ⁹ /L	2.4 ± 0.7 × 10 ³ /μL	2.4 ± 0.7 × 10 ⁹ /L	2.9 ± 1.7 × 10 ³ /μL	2.9 ± 1.7 × 10 ⁹ /L
	Mid#	0.2 ± 0.2 × 10 ³ /μL	0.2 ± 0.2 × 10 ⁹ /L	0.5 ± 0.5 × 10 ³ /μL	0.5 ± 0.5 × 10 ⁹ /L	0.8 ± 0.6 × 10 ³ /μL	0.8 ± 0.6 × 10 ⁹ /L
	Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	4.9 ± 0.7 × 10 ³ /μL	4.9 ± 0.7 × 10 ⁹ /L	16.8 ± 1.9 × 10 ³ /μL	16.8 ± 1.9 × 10 ⁹ /L
BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	1.9 ± 0.5 × 10 ³ /μL	1.9 ± 0.5 × 10 ⁹ /L	8.0 ± 1.0 × 10 ³ /μL	8.0 ± 1.0 × 10 ⁹ /L	20.8 ± 2.5 × 10 ³ /μL	20.8 ± 2.5 × 10 ⁹ /L
	RBC	2.36 ± 0.18 × 10 ⁶ /μL	2.36 ± 0.18 × 10 ¹² /L	4.77 ± 0.24 × 10 ⁶ /μL	4.77 ± 0.24 × 10 ¹² /L	5.76 ± 0.30 × 10 ⁶ /μL	5.76 ± 0.30 × 10 ¹² /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.5 ± 0.8 g/dL	185 ± 8 g/L
	HCT	18.1 ± 1.5 %	18.1 ± 1.5 %	40.5 ± 2.0 %	40.5 ± 2.0 %	54.1 ± 2.4 %	54.1 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	85.0 ± 5.0 fL	85.0 ± 5.0 fL	94.0 ± 5.0 fL	94.0 ± 5.0 fL
	MCH	25.4 ± 2.5 pg	25.4 ± 2.5 pg	28.7 ± 2.5 pg	28.7 ± 2.5 pg	32.1 ± 2.5 pg	32.1 ± 2.5 pg
	MCHC	33.2 ± 3.0 g/dL	332 ± 30 g/L	33.8 ± 3.0 g/dL	338 ± 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 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	RDW-SD	35.0 ± 8.0 fL	35.0 ± 8.0 fL	38.0 ± 8.0 fL	38.0 ± 8.0 fL	41.0 ± 8.0 fL	41.0 ± 8.0 fL
	PLT	67 ± 20 × 10 ³ /μL	67 ± 20 × 10 ⁹ /L	258 ± 40 × 10 ³ /μL	258 ± 40 × 10 ⁹ /L	559 ± 60 × 10 ³ /μL	559 ± 60 × 10 ⁹ /L
	MPV	9.2 ± 3.0 fL	9.2 ± 3.0 fL	9.0 ± 3.0 fL	9.0 ± 3.0 fL	9.4 ± 3.0 fL	9.4 ± 3.0 fL
	*PCT	0.060 ± 0.050 %	0.060 ± 0.050 %	0.230 ± 0.100 %	0.230 ± 0.100 %	0.530 ± 0.200 %	0.530 ± 0.200 %
	*PDW	15.4 ± 3.0	15.4 ± 3.0	15.7 ± 3.0	15.7 ± 3.0	15.9 ± 3.0	15.9 ± 3.0
	*P-LCC	25 ± 10 × 10 ³ /μL	25 ± 10 × 10 ⁹ /L	83 ± 22 × 10 ³ /μL	83 ± 22 × 10 ⁹ /L	192 ± 30 × 10 ³ /μL	192 ± 30 × 10 ⁹ /L
	*P-LCR	34.0 ± 9.0 %	34.0 ± 9.0 %	31.0 ± 9.0 %	31.0 ± 9.0 %	33.5 ± 9.0 %	33.5 ± 9.0 %
	Lymph	59.0 ± 9.0 %	59.0 ± 9.0 %	30.0 ± 8.0 %	30.0 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
Mid	10.5 ± 8.0 %	10.5 ± 8.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	6.0 ± 5.0 %	6.0 ± 5.0 %	
Gran	30.5 ± 9.0 %	30.5 ± 9.0 %	62.0 ± 8.0 %	62.0 ± 8.0 %	80.5 ± 9.0 %	80.5 ± 9.0 %	
Lymph#	1.1 ± 0.2 × 10 ³ /μL	1.1 ± 0.2 × 10 ⁹ /L	2.4 ± 0.7 × 10 ³ /μL	2.4 ± 0.7 × 10 ⁹ /L	2.8 ± 1.7 × 10 ³ /μL	2.8 ± 1.7 × 10 ⁹ /L	
Mid#	0.2 ± 0.2 × 10 ³ /μL	0.2 ± 0.2 × 10 ⁹ /L	0.6 ± 0.6 × 10 ³ /μL	0.6 ± 0.6 × 10 ⁹ /L	1.2 ± 1.0 × 10 ³ /μL	1.2 ± 1.0 × 10 ⁹ /L	
Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	5.0 ± 0.7 × 10 ³ /μL	5.0 ± 0.7 × 10 ⁹ /L	16.7 ± 1.9 × 10 ³ /μL	16.7 ± 1.9 × 10 ⁹ /L	

THIS
ANALYZER
NOT
APPROVED
FOR USE IN
THE US

* 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

 B0519


2019-08-05

Instrument	Parameter	Low		Normal		High	
		<div style="border: 1px solid black; padding: 2px;">LOT</div> B0519L	B0519L	<div style="border: 1px solid black; padding: 2px;">LOT</div> B0519N	B0519N	<div style="border: 1px solid black; padding: 2px;">LOT</div> B0519H	B0519H
		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 ⁹ /μL	2.0 ± 0.5 × 10 ⁹ /L	8.3 ± 1.0 × 10 ⁹ /μL	8.3 ± 1.0 × 10 ⁹ /L	22.0 ± 2.5 × 10 ⁹ /μL	22.0 ± 2.5 × 10 ⁹ /L
	RBC	2.36 ± 0.18 × 10 ⁶ /μL	2.36 ± 0.18 × 10 ¹² /L	4.74 ± 0.24 × 10 ⁶ /μL	4.74 ± 0.24 × 10 ¹² /L	5.78 ± 0.30 × 10 ⁶ /μL	5.78 ± 0.30 × 10 ¹² /L
	HGB	5.9 ± 0.4 g/dL	59 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	17.7 ± 1.5 %	17.7 ± 1.5 %	40.8 ± 2.0 %	40.8 ± 2.0 %	55.5 ± 2.4 %	55.5 ± 2.4 %
	MCV	75.0 ± 5.0 fL	75.0 ± 5.0 fL	86.0 ± 5.0 fL	86.0 ± 5.0 fL	96.0 ± 5.0 fL	96.0 ± 5.0 fL
	MCH	25.0 ± 2.5 pg	25.0 ± 2.5 pg	28.9 ± 2.5 pg	28.9 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
	MCHC	33.3 ± 3.0 g/dL	333 ± 30 g/L	33.6 ± 3.0 g/dL	336 ± 30 g/L	33.9 ± 3.0 g/dL	339 ± 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	77 ± 20 × 10 ³ /μL	77 ± 20 × 10 ⁹ /L	254 ± 40 × 10 ³ /μL	254 ± 40 × 10 ⁹ /L	525 ± 60 × 10 ³ /μL	525 ± 60 × 10 ⁹ /L
	*MPV	8.3 ± 3.0 fL	8.3 ± 3.0 fL	7.9 ± 3.0 fL	7.9 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL
	Lymph	53.5 ± 12.0 %	53.5 ± 12.0 %	29.0 ± 8.0 %	29.0 ± 8.0 %	14.0 ± 6.0 %	14.0 ± 6.0 %
	*Mid	12.5 ± 9.0 %	12.5 ± 9.0 %	8.0 ± 7.0 %	8.0 ± 7.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %
	Gran	34.0 ± 10.0 %	34.0 ± 10.0 %	63.0 ± 8.0 %	63.0 ± 8.0 %	79.0 ± 8.0 %	79.0 ± 8.0 %
	Lymph#	1.1 ± 0.3 × 10 ³ /μL	1.1 ± 0.3 × 10 ⁹ /L	2.4 ± 0.7 × 10 ³ /μL	2.4 ± 0.7 × 10 ⁹ /L	3.1 ± 1.4 × 10 ³ /μL	3.1 ± 1.4 × 10 ⁹ /L
	*Mid#	0.3 ± 0.3 × 10 ³ /μL	0.3 ± 0.3 × 10 ⁹ /L	0.7 ± 0.7 × 10 ³ /μL	0.7 ± 0.7 × 10 ⁹ /L	1.5 ± 1.3 × 10 ³ /μL	1.5 ± 1.3 × 10 ⁹ /L
	Gran#	0.7 ± 0.3 × 10 ³ /μL	0.7 ± 0.3 × 10 ⁹ /L	5.2 ± 0.7 × 10 ³ /μL	5.2 ± 0.7 × 10 ⁹ /L	17.4 ± 1.8 × 10 ³ /μL	17.4 ± 1.8 × 10 ⁹ /L

* For new software version 01.07.00 or greater.

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