

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0522



2022-08-05

Instrument	Parameter	Low LOT B0522L		Normal LOT B0522N		High LOT B0522H	
		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	1.8 ± 0.5 × 10 ³ /μL	1.8 ± 0.5 × 10 ⁹ /L	7.7 ± 1.0 × 10 ³ /μL	7.7 ± 1.0 × 10 ⁹ /L	20.2 ± 2.5 × 10 ³ /μL	20.2 ± 2.5 × 10 ⁹ /L
	RBC	2.24 ± 0.18 × 10 ⁶ /μL	2.24 ± 0.18 × 10 ¹² /L	4.73 ± 0.24 × 10 ⁶ /μL	4.73 ± 0.24 × 10 ¹² /L	5.79 ± 0.30 × 10 ⁶ /μL	5.79 ± 0.30 × 10 ¹² /L
	HGB	5.7 ± 0.4 g/dL	57 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	19.1 ± 0.8 g/dL	191 ± 8 g/L
	HCT	17.1 ± 1.5 %	17.1 ± 1.5 %	41.2 ± 2.0 %	41.2 ± 2.0 %	54.1 ± 2.4 %	54.1 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	87.0 ± 5.0 fL	87.0 ± 5.0 fL	93.5 ± 5.0 fL	93.5 ± 5.0 fL
	MCH	25.4 ± 2.5 pg	25.4 ± 2.5 pg	29.4 ± 2.5 pg	29.4 ± 2.5 pg	33.0 ± 2.5 pg	33.0 ± 2.5 pg
	MCHC	33.3 ± 3.0 g/dL	333 ± 30 g/L	33.8 ± 3.0 g/dL	338 ± 30 g/L	35.3 ± 3.0 g/dL	353 ± 30 g/L
	RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %
	PLT	66 ± 20 × 10 ³ /μL	66 ± 20 × 10 ⁹ /L	252 ± 40 × 10 ³ /μL	252 ± 40 × 10 ⁹ /L	547 ± 60 × 10 ³ /μL	547 ± 60 × 10 ⁹ /L
	MPV	7.8 ± 3.0 fL	7.8 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	7.9 ± 3.0 fL	7.9 ± 3.0 fL
	Lymph	58.0 ± 9.0 %	58.0 ± 9.0 %	29.5 ± 8.0 %	29.5 ± 8.0 %	13.0 ± 8.0 %	13.0 ± 8.0 %
	Mid	10.5 ± 9.0 %	10.5 ± 9.0 %	7.5 ± 7.0 %	7.5 ± 7.0 %	4.5 ± 4.0 %	4.5 ± 4.0 %
	Gran	31.5 ± 9.0 %	31.5 ± 9.0 %	63.0 ± 8.0 %	63.0 ± 8.0 %	82.5 ± 9.0 %	82.5 ± 9.0 %
	Lymph#	1.0 ± 0.2 × 10 ³ /μL	1.0 ± 0.2 × 10 ⁹ /L	2.3 ± 0.6 × 10 ³ /μL	2.3 ± 0.6 × 10 ⁹ /L	2.6 ± 1.6 × 10 ³ /μL	2.6 ± 1.6 × 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	0.9 ± 0.8 × 10 ³ /μL	0.9 ± 0.8 × 10 ⁹ /L
Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	4.9 ± 0.6 × 10 ³ /μL	4.9 ± 0.6 × 10 ⁹ /L	16.7 ± 1.8 × 10 ³ /μL	16.7 ± 1.8 × 10 ⁹ /L	
BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	2.0 ± 0.5 × 10 ³ /μL	2.0 ± 0.5 × 10 ⁹ /L	8.0 ± 1.0 × 10 ³ /μL	8.0 ± 1.0 × 10 ⁹ /L	21.2 ± 2.5 × 10 ³ /μL	21.2 ± 2.5 × 10 ⁹ /L
	RBC	2.35 ± 0.18 × 10 ⁶ /μL	2.35 ± 0.18 × 10 ¹² /L	4.84 ± 0.24 × 10 ⁶ /μL	4.84 ± 0.24 × 10 ¹² /L	5.89 ± 0.30 × 10 ⁶ /μL	5.89 ± 0.30 × 10 ¹² /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	18.0 ± 1.5 %	18.0 ± 1.5 %	41.5 ± 2.0 %	41.5 ± 2.0 %	54.9 ± 2.4 %	54.9 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	85.8 ± 5.0 fL	85.8 ± 5.0 fL	93.2 ± 5.0 fL	93.2 ± 5.0 fL
	MCH	25.5 ± 2.5 pg	25.5 ± 2.5 pg	28.7 ± 2.5 pg	28.7 ± 2.5 pg	32.1 ± 2.5 pg	32.1 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	33.5 ± 3.0 g/dL	335 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 30 g/L
	RDW-CV	16.9 ± 3.0 %	16.9 ± 3.0 %	15.3 ± 3.0 %	15.3 ± 3.0 %	14.1 ± 3.0 %	14.1 ± 3.0 %
	RDW-SD	39.2 ± 8.0 fL	39.2 ± 8.0 fL	43.0 ± 8.0 fL	43.0 ± 8.0 fL	44.3 ± 8.0 fL	44.3 ± 8.0 fL
	PLT	71 ± 20 × 10 ³ /μL	71 ± 20 × 10 ⁹ /L	265 ± 40 × 10 ³ /μL	265 ± 40 × 10 ⁹ /L	546 ± 60 × 10 ³ /μL	546 ± 60 × 10 ⁹ /L
	MPV	9.7 ± 3.0 fL	9.7 ± 3.0 fL	9.6 ± 3.0 fL	9.6 ± 3.0 fL	9.3 ± 3.0 fL	9.3 ± 3.0 fL
	*PCT	0.069 ± 0.050 %	0.069 ± 0.050 %	0.254 ± 0.100 %	0.254 ± 0.100 %	0.508 ± 0.200 %	0.508 ± 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	26 ± 10 × 10 ³ /μL	26 ± 10 × 10 ⁹ /L	90 ± 22 × 10 ³ /μL	90 ± 22 × 10 ⁹ /L	177 ± 30 × 10 ³ /μL	177 ± 30 × 10 ⁹ /L
	*P-LCR	36.5 ± 9.0 %	36.5 ± 9.0 %	34.1 ± 9.0 %	34.1 ± 9.0 %	32.4 ± 9.0 %	32.4 ± 9.0 %
Lymph	57.8 ± 9.0 %	57.8 ± 9.0 %	30.2 ± 8.0 %	30.2 ± 8.0 %	13.3 ± 8.0 %	13.3 ± 8.0 %	
Mid	12.8 ± 10.0 %	12.8 ± 10.0 %	8.8 ± 8.0 %	8.8 ± 8.0 %	5.6 ± 4.0 %	5.6 ± 4.0 %	
Gran	29.4 ± 9.0 %	29.4 ± 9.0 %	61.0 ± 8.0 %	61.0 ± 8.0 %	81.1 ± 9.0 %	81.1 ± 9.0 %	
Lymph#	1.2 ± 0.2 × 10 ³ /μL	1.2 ± 0.2 × 10 ⁹ /L	2.4 ± 0.6 × 10 ³ /μL	2.4 ± 0.6 × 10 ⁹ /L	2.8 ± 1.7 × 10 ³ /μL	2.8 ± 1.7 × 10 ⁹ /L	
Mid#	0.3 ± 0.2 × 10 ³ /μL	0.3 ± 0.2 × 10 ⁹ /L	0.7 ± 0.6 × 10 ³ /μL	0.7 ± 0.6 × 10 ⁹ /L	1.2 ± 0.9 × 10 ³ /μL	1.2 ± 0.9 × 10 ⁹ /L	
Gran#	0.5 ± 0.2 × 10 ³ /μL	0.5 ± 0.2 × 10 ⁹ /L	4.9 ± 0.6 × 10 ³ /μL	4.9 ± 0.6 × 10 ⁹ /L	17.2 ± 1.9 × 10 ³ /μL	17.2 ± 1.9 × 10 ⁹ /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	B0522
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2022-08-05

Instrument	Parameter	Low		Normal		High	
		LOT	B0522L	LOT	B0522N	LOT	B0522H
		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 ³ /μL	2.1 ± 0.5 × 10 ⁹ /L	8.4 ± 1.0 × 10 ³ /μL	8.4 ± 1.0 × 10 ⁹ /L	21.9 ± 2.5 × 10 ³ /μL	21.9 ± 2.5 × 10 ⁹ /L
	RBC	2.29 ± 0.18 × 10 ⁶ /μL	2.29 ± 0.18 × 10 ¹² /L	4.75 ± 0.24 × 10 ⁶ /μL	4.75 ± 0.24 × 10 ¹² /L	5.77 ± 0.30 × 10 ⁶ /μL	5.77 ± 0.30 × 10 ¹² /L
	HGB	5.9 ± 0.4 g/dL	59 ± 4 g/L	13.8 ± 0.6 g/dL	138 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	17.5 ± 1.5 %	17.5 ± 1.5 %	40.9 ± 2.0 %	40.9 ± 2.0 %	54.8 ± 2.4 %	54.8 ± 2.4 %
	MCV	76.4 ± 5.0 fL	76.4 ± 5.0 fL	86.2 ± 5.0 fL	86.2 ± 5.0 fL	95.0 ± 5.0 fL	95.0 ± 5.0 fL
	MCH	25.8 ± 2.5 pg	25.8 ± 2.5 pg	29.1 ± 2.5 pg	29.1 ± 2.5 pg	32.6 ± 2.5 pg	32.6 ± 2.5 pg
	MCHC	33.7 ± 3.0 g/dL	337 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L
	*RDW	15.8 ± 3.0 %	15.8 ± 3.0 %	14.6 ± 3.0 %	14.6 ± 3.0 %	13.6 ± 3.0 %	13.6 ± 3.0 %
	PLT	76 ± 20 × 10 ³ /μL	76 ± 20 × 10 ⁹ /L	263 ± 40 × 10 ³ /μL	263 ± 40 × 10 ⁹ /L	529 ± 60 × 10 ³ /μL	529 ± 60 × 10 ⁹ /L
	*MPV	8.9 ± 3.0 fL	8.9 ± 3.0 fL	8.5 ± 3.0 fL	8.5 ± 3.0 fL	8.1 ± 3.0 fL	8.1 ± 3.0 fL
	Lymph	52.5 ± 12.0 %	52.5 ± 12.0 %	27.0 ± 8.0 %	27.0 ± 8.0 %	12.5 ± 7.0 %	12.5 ± 7.0 %
	*Mid	15.0 ± 10.0 %	15.0 ± 10.0 %	9.0 ± 7.0 %	9.0 ± 7.0 %	7.5 ± 5.0 %	7.5 ± 5.0 %
	Gran	32.5 ± 9.0 %	32.5 ± 9.0 %	64.0 ± 8.0 %	64.0 ± 8.0 %	80.0 ± 9.0 %	80.0 ± 9.0 %
	Lymph#	1.1 ± 0.3 × 10 ³ /μL	1.1 ± 0.3 × 10 ⁹ /L	2.3 ± 0.7 × 10 ³ /μL	2.3 ± 0.7 × 10 ⁹ /L	2.7 ± 1.5 × 10 ³ /μL	2.7 ± 1.5 × 10 ⁹ /L
	*Mid#	0.3 ± 0.2 × 10 ³ /μL	0.3 ± 0.2 × 10 ⁹ /L	0.8 ± 0.6 × 10 ³ /μL	0.8 ± 0.6 × 10 ⁹ /L	1.6 ± 1.1 × 10 ³ /μL	1.6 ± 1.1 × 10 ⁹ /L
	Gran#	0.7 ± 0.2 × 10 ³ /μL	0.7 ± 0.2 × 10 ⁹ /L	5.4 ± 0.7 × 10 ³ /μL	5.4 ± 0.7 × 10 ⁹ /L	17.5 ± 2.0 × 10 ³ /μL	17.5 ± 2.0 × 10 ⁹ /L

* For new software version 01.07.00 or greater.

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