

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0822



2022-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0822L	LOT B0822N	LOT B0822H	LOT B0822H		
		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 ³ /μL	2.0 ± 0.5 × 10 ⁹ /L	7.7 ± 1.0 × 10 ³ /μL	7.7 ± 1.0 × 10 ⁹ /L	20.3 ± 2.5 × 10 ³ /μL	20.3 ± 2.5 × 10 ⁹ /L
	RBC	2.20 ± 0.18 × 10 ⁶ /μL	2.20 ± 0.18 × 10 ¹² /L	4.57 ± 0.24 × 10 ⁶ /μL	4.57 ± 0.24 × 10 ¹² /L	5.61 ± 0.30 × 10 ⁶ /μL	5.61 ± 0.30 × 10 ¹² /L
	HGB	5.6 ± 0.4 g/dL	56 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	16.9 ± 1.5 %	16.9 ± 1.5 %	39.5 ± 2.0 %	39.5 ± 2.0 %	53.9 ± 2.4 %	53.9 ± 2.4 %
	MCV	77.0 ± 5.0 fL	77.0 ± 5.0 fL	86.5 ± 5.0 fL	86.5 ± 5.0 fL	96.0 ± 5.0 fL	96.0 ± 5.0 fL
	MCH	25.5 ± 2.5 pg	25.5 ± 2.5 pg	29.8 ± 2.5 pg	29.8 ± 2.5 pg	33.7 ± 2.5 pg	33.7 ± 2.5 pg
	MCHC	33.1 ± 3.0 g/dL	331 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 30 g/L	35.1 ± 3.0 g/dL	351 ± 30 g/L
	RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	14.5 ± 3.0 %	14.5 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	PLT	64 ± 20 × 10 ³ /μL	64 ± 20 × 10 ⁹ /L	265 ± 40 × 10 ³ /μL	265 ± 40 × 10 ⁹ /L	565 ± 60 × 10 ³ /μL	565 ± 60 × 10 ⁹ /L
	MPV	7.9 ± 3.0 fL	7.9 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	7.8 ± 3.0 fL	7.8 ± 3.0 fL
	Lymph	59.5 ± 9.0 %	59.5 ± 9.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	13.0 ± 8.0 %	13.0 ± 8.0 %
	Mid	9.0 ± 8.0 %	9.0 ± 8.0 %	6.0 ± 5.0 %	6.0 ± 5.0 %	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 %	83.0 ± 9.0 %	83.0 ± 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	2.6 ± 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	0.5 ± 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	4.8 ± 0.7 × 10 ³ /μL	4.8 ± 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	2.1 ± 0.5 × 10 ³ /μL	2.1 ± 0.5 × 10 ⁹ /L	7.9 ± 1.0 × 10 ³ /μL	7.9 ± 1.0 × 10 ⁹ /L	21.1 ± 2.5 × 10 ³ /μL
RBC		2.27 ± 0.18 × 10 ⁶ /μL	2.27 ± 0.18 × 10 ¹² /L	4.67 ± 0.24 × 10 ⁶ /μL	4.67 ± 0.24 × 10 ¹² /L	5.74 ± 0.30 × 10 ⁶ /μL	5.74 ± 0.30 × 10 ¹² /L
HGB		5.9 ± 0.4 g/dL	59 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
HCT		17.5 ± 1.5 %	17.5 ± 1.5 %	40.3 ± 2.0 %	40.3 ± 2.0 %	54.5 ± 2.4 %	54.5 ± 2.4 %
MCV		77.1 ± 5.0 fL	77.1 ± 5.0 fL	86.3 ± 5.0 fL	86.3 ± 5.0 fL	94.9 ± 5.0 fL	94.9 ± 5.0 fL
MCH		26.0 ± 2.5 pg	26.0 ± 2.5 pg	29.1 ± 2.5 pg	29.1 ± 2.5 pg	32.8 ± 2.5 pg	32.8 ± 2.5 pg
MCHC		33.7 ± 3.0 g/dL	337 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.5 ± 3.0 g/dL	345 ± 30 g/L
RDW-CV		16.1 ± 3.0 %	16.1 ± 3.0 %	15.8 ± 3.0 %	15.8 ± 3.0 %	15.1 ± 3.0 %	15.1 ± 3.0 %
RDW-SD		36.5 ± 8.0 fL	36.5 ± 8.0 fL	41.9 ± 8.0 fL	41.9 ± 8.0 fL	48.3 ± 8.0 fL	48.3 ± 8.0 fL
PLT		69 ± 20 × 10 ³ /μL	69 ± 20 × 10 ⁹ /L	280 ± 40 × 10 ³ /μL	280 ± 40 × 10 ⁹ /L	568 ± 60 × 10 ³ /μL	568 ± 60 × 10 ⁹ /L
MPV		9.3 ± 3.0 fL	9.3 ± 3.0 fL	9.5 ± 3.0 fL	9.5 ± 3.0 fL	9.3 ± 3.0 fL	9.3 ± 3.0 fL
*PCT		0.064 ± 0.050 %	0.064 ± 0.050 %	0.266 ± 0.100 %	0.266 ± 0.100 %	0.528 ± 0.200 %	0.528 ± 0.200 %
*PDW		15.3 ± 3.0	15.3 ± 3.0	15.8 ± 3.0	15.8 ± 3.0	15.9 ± 3.0	15.9 ± 3.0
*P-LCC		23 ± 10 × 10 ³ /μL	23 ± 10 × 10 ⁹ /L	92 ± 22 × 10 ³ /μL	92 ± 22 × 10 ⁹ /L	178 ± 30 × 10 ³ /μL	178 ± 30 × 10 ⁹ /L
*P-LCR		33.4 ± 9.0 %	33.4 ± 9.0 %	32.9 ± 9.0 %	32.9 ± 9.0 %	31.4 ± 9.0 %	31.4 ± 9.0 %
Lymph		60.2 ± 9.0 %	60.2 ± 9.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	13.8 ± 8.0 %	13.8 ± 8.0 %
Mid		11.0 ± 10.0 %	11.0 ± 10.0 %	7.7 ± 7.0 %	7.7 ± 7.0 %	4.8 ± 4.0 %	4.8 ± 4.0 %
Gran	28.8 ± 9.0 %	28.8 ± 9.0 %	60.8 ± 8.0 %	60.8 ± 8.0 %	81.4 ± 9.0 %	81.4 ± 9.0 %	
Lymph#	1.3 ± 0.2 × 10 ³ /μL	1.3 ± 0.2 × 10 ⁹ /L	2.5 ± 0.7 × 10 ³ /μL	2.5 ± 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	0.6 ± 0.6 × 10 ³ /μL	0.6 ± 0.6 × 10 ⁹ /L	1.0 ± 0.9 × 10 ³ /μL	1.0 ± 0.9 × 10 ⁹ /L	
Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	4.8 ± 0.7 × 10 ³ /μL	4.8 ± 0.7 × 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

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CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0822



2022-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0822L		LOT B0822N		LOT B0822H	
		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	8.3 ± 1.0 × 10 ³ /μL	8.3 ± 1.0 × 10 ⁹ /L	21.9 ± 2.5 × 10 ³ /μL	21.9 ± 2.5 × 10 ⁹ /L
	RBC	2.25 ± 0.18 × 10 ⁶ /μL	2.25 ± 0.18 × 10 ¹² /L	4.54 ± 0.24 × 10 ⁶ /μL	4.54 ± 0.24 × 10 ¹² /L	5.60 ± 0.30 × 10 ⁶ /μL	5.60 ± 0.30 × 10 ¹² /L
	HGB	5.8 ± 0.4 g/dL	58 ± 4 g/L	13.5 ± 0.6 g/dL	135 ± 6 g/L	18.6 ± 0.8 g/dL	186 ± 8 g/L
	HCT	17.3 ± 1.5 %	17.3 ± 1.5 %	39.5 ± 2.0 %	39.5 ± 2.0 %	54.4 ± 2.4 %	54.4 ± 2.4 %
	MCV	77.0 ± 5.0 fL	77.0 ± 5.0 fL	87.1 ± 5.0 fL	87.1 ± 5.0 fL	97.1 ± 5.0 fL	97.1 ± 5.0 fL
	MCH	25.8 ± 2.5 pg	25.8 ± 2.5 pg	29.7 ± 2.5 pg	29.7 ± 2.5 pg	33.2 ± 2.5 pg	33.2 ± 2.5 pg
	MCHC	33.5 ± 3.0 g/dL	335 ± 30 g/L	34.1 ± 3.0 g/dL	341 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L
	*RDW	15.2 ± 3.0 %	15.2 ± 3.0 %	14.6 ± 3.0 %	14.6 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	PLT	78 ± 20 × 10 ³ /μL	78 ± 20 × 10 ⁹ /L	273 ± 40 × 10 ³ /μL	273 ± 40 × 10 ⁹ /L	543 ± 60 × 10 ³ /μL	543 ± 60 × 10 ⁹ /L
	*MPV	8.5 ± 3.0 fL	8.5 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	7.8 ± 3.0 fL	7.8 ± 3.0 fL
	Lymph	54.0 ± 12.0 %	54.0 ± 12.0 %	30.0 ± 8.0 %	30.0 ± 8.0 %	14.0 ± 6.0 %	14.0 ± 6.0 %
	*Mid	14.0 ± 10.0 %	14.0 ± 10.0 %	7.5 ± 7.0 %	7.5 ± 7.0 %	8.0 ± 6.0 %	8.0 ± 6.0 %
	Gran	32.0 ± 9.0 %	32.0 ± 9.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	78.0 ± 8.0 %	78.0 ± 8.0 %
	Lymph#	1.1 ± 0.3 × 10 ³ /μL	1.1 ± 0.3 × 10 ⁹ /L	2.5 ± 0.7 × 10 ³ /μL	2.5 ± 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	0.6 ± 0.6 × 10 ³ /μL	0.6 ± 0.6 × 10 ⁹ /L	1.8 ± 1.4 × 10 ³ /μL	1.8 ± 1.4 × 10 ⁹ /L
	Gran#	0.8 ± 0.3 × 10 ³ /μL	0.8 ± 0.3 × 10 ⁹ /L	5.2 ± 0.7 × 10 ³ /μL	5.2 ± 0.7 × 10 ⁹ /L	17.1 ± 1.8 × 10 ³ /μL	17.1 ± 1.8 × 10 ⁹ /L

* For new software version 01.07.00 or greater.

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