

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0823



2023-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0823L	LOT B0823N	LOT B0823H	LOT B0823H		
		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	7.5 ± 1.0 × 10 ³ /μL	7.5 ± 1.0 × 10 ⁹ /L	19.7 ± 2.5 × 10 ³ /μL	19.7 ± 2.5 × 10 ⁹ /L
	RBC	2.15 ± 0.18 × 10 ⁶ /μL	2.15 ± 0.18 × 10 ¹² /L	4.56 ± 0.24 × 10 ⁶ /μL	4.56 ± 0.24 × 10 ¹² /L	5.58 ± 0.30 × 10 ⁶ /μL	5.58 ± 0.30 × 10 ¹² /L
	HGB	5.5 ± 0.4 g/dL	55 ± 4 g/L	13.5 ± 0.6 g/dL	135 ± 6 g/L	18.5 ± 0.8 g/dL	185 ± 8 g/L
	HCT	16.6 ± 1.5 %	16.6 ± 1.5 %	38.8 ± 2.0 %	38.8 ± 2.0 %	52.2 ± 2.4 %	52.2 ± 2.4 %
	MCV	77.0 ± 5.0 fL	77.0 ± 5.0 fL	85.0 ± 5.0 fL	85.0 ± 5.0 fL	93.5 ± 5.0 fL	93.5 ± 5.0 fL
	MCH	25.6 ± 2.5 pg	25.6 ± 2.5 pg	29.6 ± 2.5 pg	29.6 ± 2.5 pg	33.2 ± 2.5 pg	33.2 ± 2.5 pg
	MCHC	33.2 ± 3.0 g/dL	332 ± 30 g/L	34.8 ± 3.0 g/dL	348 ± 30 g/L	35.5 ± 3.0 g/dL	355 ± 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	60 ± 20 × 10 ³ /μL	60 ± 20 × 10 ⁹ /L	248 ± 40 × 10 ³ /μL	248 ± 40 × 10 ⁹ /L	525 ± 60 × 10 ³ /μL	525 ± 60 × 10 ⁹ /L
	MPV	7.3 ± 3.0 fL	7.3 ± 3.0 fL	7.3 ± 3.0 fL	7.3 ± 3.0 fL	7.7 ± 3.0 fL	7.7 ± 3.0 fL
	Lymph	58.5 ± 9.0 %	58.5 ± 9.0 %	30.0 ± 8.0 %	30.0 ± 8.0 %	14.0 ± 8.0 %	14.0 ± 8.0 %
	Mid	8.5 ± 8.0 %	8.5 ± 8.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %	3.5 ± 3.0 %	3.5 ± 3.0 %
	Gran	33.0 ± 9.0 %	33.0 ± 9.0 %	63.0 ± 8.0 %	63.0 ± 8.0 %	82.5 ± 9.0 %	82.5 ± 9.0 %
	Lymph#	1.1 ± 0.2 × 10 ³ /μL	1.1 ± 0.2 × 10 ⁹ /L	2.3 ± 0.6 × 10 ³ /μL	2.3 ± 0.6 × 10 ⁹ /L	2.8 ± 1.6 × 10 ³ /μL	2.8 ± 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	0.7 ± 0.6 × 10 ³ /μL	0.7 ± 0.6 × 10 ⁹ /L
	Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	4.7 ± 0.6 × 10 ³ /μL	4.7 ± 0.6 × 10 ⁹ /L	16.3 ± 1.8 × 10 ³ /μL	16.3 ± 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	7.7 ± 1.0 × 10 ³ /μL	7.7 ± 1.0 × 10 ⁹ /L	20.3 ± 2.5 × 10 ³ /μL
RBC		2.21 ± 0.18 × 10 ⁶ /μL	2.21 ± 0.18 × 10 ¹² /L	4.68 ± 0.24 × 10 ⁶ /μL	4.68 ± 0.24 × 10 ¹² /L	5.71 ± 0.30 × 10 ⁶ /μL	5.71 ± 0.30 × 10 ¹² /L
HGB		5.7 ± 0.4 g/dL	57 ± 4 g/L	13.5 ± 0.6 g/dL	135 ± 6 g/L	18.4 ± 0.8 g/dL	184 ± 8 g/L
HCT		17.1 ± 1.5 %	17.1 ± 1.5 %	40.0 ± 2.0 %	40.0 ± 2.0 %	53.8 ± 2.4 %	53.8 ± 2.4 %
MCV		77.6 ± 5.0 fL	77.6 ± 5.0 fL	85.5 ± 5.0 fL	85.5 ± 5.0 fL	94.3 ± 5.0 fL	94.3 ± 5.0 fL
MCH		25.8 ± 2.5 pg	25.8 ± 2.5 pg	28.8 ± 2.5 pg	28.8 ± 2.5 pg	32.2 ± 2.5 pg	32.2 ± 2.5 pg
MCHC		33.2 ± 3.0 g/dL	332 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L
RDW-CV		16.4 ± 3.0 %	16.4 ± 3.0 %	14.3 ± 3.0 %	14.3 ± 3.0 %	13.3 ± 3.0 %	13.3 ± 3.0 %
RDW-SD		36.7 ± 8.0 fL	36.7 ± 8.0 fL	37.4 ± 8.0 fL	37.4 ± 8.0 fL	40.7 ± 8.0 fL	40.7 ± 8.0 fL
PLT		63 ± 20 × 10 ³ /μL	63 ± 20 × 10 ⁹ /L	254 ± 40 × 10 ³ /μL	254 ± 40 × 10 ⁹ /L	534 ± 60 × 10 ³ /μL	534 ± 60 × 10 ⁹ /L
MPV		9.3 ± 3.0 fL	9.3 ± 3.0 fL	8.9 ± 3.0 fL	8.9 ± 3.0 fL	9.4 ± 3.0 fL	9.4 ± 3.0 fL
*PCT		0.059 ± 0.050 %	0.059 ± 0.050 %	0.226 ± 0.100 %	0.226 ± 0.100 %	0.502 ± 0.200 %	0.502 ± 0.200 %
*PDW		15.4 ± 3.0 %	15.4 ± 3.0 %	15.7 ± 3.0 %	15.7 ± 3.0 %	16.2 ± 3.0 %	16.2 ± 3.0 %
*P-LCC		21 ± 10 × 10 ³ /μL	21 ± 10 × 10 ⁹ /L	74 ± 22 × 10 ³ /μL	74 ± 22 × 10 ⁹ /L	172 ± 30 × 10 ³ /μL	172 ± 30 × 10 ⁹ /L
*P-LCR		33.1 ± 12.0 %	33.1 ± 12.0 %	29.1 ± 9.0 %	29.1 ± 9.0 %	32.3 ± 9.0 %	32.3 ± 9.0 %
Lymph		58.8 ± 9.0 %	58.8 ± 9.0 %	30.2 ± 8.0 %	30.2 ± 8.0 %	14.4 ± 8.0 %	14.4 ± 8.0 %
Mid		9.7 ± 9.0 %	9.7 ± 9.0 %	8.1 ± 7.0 %	8.1 ± 7.0 %	3.6 ± 3.5 %	3.6 ± 3.5 %
Gran	31.5 ± 9.0 %	31.5 ± 9.0 %	61.7 ± 8.0 %	61.7 ± 8.0 %	82.0 ± 9.0 %	82.0 ± 9.0 %	
Lymph#	1.2 ± 0.2 × 10 ³ /μL	1.2 ± 0.2 × 10 ⁹ /L	2.3 ± 0.7 × 10 ³ /μL	2.3 ± 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	0.7 ± 0.7 × 10 ³ /μL	0.7 ± 0.7 × 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	16.7 ± 1.9 × 10 ³ /μL	16.7 ± 1.9 × 10 ⁹ /L	

* For Research Use Only.

Before using, refer to the instruction sheet for mixing directions.

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ASSAY VALUES AND EXPECTED RANGES

LOT B0823



2023-11-05

Instrument	Parameter	Low LOT B0823L		Normal LOT B0823N		High LOT B0823H	
		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	7.9 ± 1.0 × 10 ³ /μL	7.9 ± 1.0 × 10 ⁹ /L	20.7 ± 2.5 × 10 ³ /μL	20.7 ± 2.5 × 10 ⁹ /L
	RBC	2.18 ± 0.18 × 10 ⁶ /μL	2.18 ± 0.18 × 10 ¹² /L	4.59 ± 0.24 × 10 ⁶ /μL	4.59 ± 0.24 × 10 ¹² /L	5.60 ± 0.30 × 10 ⁶ /μL	5.60 ± 0.30 × 10 ¹² /L
	HGB	5.6 ± 0.4 g/dL	56 ± 4 g/L	13.4 ± 0.6 g/dL	134 ± 6 g/L	18.2 ± 0.8 g/dL	182 ± 8 g/L
	HCT	16.7 ± 1.5 %	16.7 ± 1.5 %	39.3 ± 2.0 %	39.3 ± 2.0 %	53.5 ± 2.4 %	53.5 ± 2.4 %
	MCV	76.6 ± 5.0 fL	76.6 ± 5.0 fL	85.7 ± 5.0 fL	85.7 ± 5.0 fL	95.5 ± 5.0 fL	95.5 ± 5.0 fL
	MCH	25.7 ± 2.5 pg	25.7 ± 2.5 pg	29.2 ± 2.5 pg	29.2 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
	MCHC	33.5 ± 3.0 g/dL	335 ± 30 g/L	34.1 ± 3.0 g/dL	341 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 30 g/L
	*RDW	15.4 ± 3.0 %	15.4 ± 3.0 %	14.4 ± 3.0 %	14.4 ± 3.0 %	13.7 ± 3.0 %	13.7 ± 3.0 %
	PLT	72 ± 20 × 10 ³ /μL	72 ± 20 × 10 ⁹ /L	253 ± 40 × 10 ³ /μL	253 ± 40 × 10 ⁹ /L	506 ± 60 × 10 ³ /μL	506 ± 60 × 10 ⁹ /L
	*MPV	8.6 ± 3.0 fL	8.6 ± 3.0 fL	7.6 ± 3.0 fL	7.6 ± 3.0 fL	7.8 ± 3.0 fL	7.8 ± 3.0 fL
	Lymph	50.5 ± 12.0 %	50.5 ± 12.0 %	25.5 ± 8.0 %	25.5 ± 8.0 %	14.0 ± 6.0 %	14.0 ± 6.0 %
	*Mid	16.5 ± 10.0 %	16.5 ± 10.0 %	11.0 ± 8.0 %	11.0 ± 8.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %
	Gran	33.0 ± 9.0 %	33.0 ± 9.0 %	63.5 ± 8.5 %	63.5 ± 8.5 %	79.0 ± 8.0 %	79.0 ± 8.0 %
	Lymph#	1.1 ± 0.3 × 10 ³ /μL	1.1 ± 0.3 × 10 ⁹ /L	2.0 ± 0.7 × 10 ³ /μL	2.0 ± 0.7 × 10 ⁹ /L	2.9 ± 1.3 × 10 ³ /μL	2.9 ± 1.3 × 10 ⁹ /L
	*Mid#	0.3 ± 0.3 × 10 ³ /μL	0.3 ± 0.3 × 10 ⁹ /L	0.9 ± 0.7 × 10 ³ /μL	0.9 ± 0.7 × 10 ⁹ /L	1.4 ± 1.3 × 10 ³ /μL	1.4 ± 1.3 × 10 ⁹ /L
	Gran#	0.7 ± 0.2 × 10 ³ /μL	0.7 ± 0.2 × 10 ⁹ /L	5.0 ± 0.7 × 10 ³ /μL	5.0 ± 0.7 × 10 ⁹ /L	16.4 ± 1.7 × 10 ³ /μL	16.4 ± 1.7 × 10 ⁹ /L

* For new software version 01.07.00 or greater.

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