

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0821



2021-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0821L	LOT B0821N	LOT B0821H	LOT B0821H		
		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	2.2 ± 0.5 × 10 ³ /μL	2.2 ± 0.5 × 10 ⁹ /L	8.2 ± 1.0 × 10 ³ /μL	8.2 ± 1.0 × 10 ⁹ /L	20.9 ± 2.5 × 10 ³ /μL	20.9 ± 2.5 × 10 ⁹ /L
	RBC	2.29 ± 0.18 × 10 ⁶ /μL	2.29 ± 0.18 × 10 ¹² /L	4.63 ± 0.24 × 10 ⁶ /μL	4.63 ± 0.24 × 10 ¹² /L	5.87 ± 0.30 × 10 ⁶ /μL	5.87 ± 0.30 × 10 ¹² /L
	HGB	5.9 ± 0.4 g/dL	59 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	19.6 ± 0.8 g/dL	196 ± 8 g/L
	HCT	17.6 ± 1.5 %	17.6 ± 1.5 %	39.6 ± 2.0 %	39.6 ± 2.0 %	55.2 ± 2.4 %	55.2 ± 2.4 %
	MCV	77.0 ± 5.0 fL	77.0 ± 5.0 fL	85.5 ± 5.0 fL	85.5 ± 5.0 fL	94.0 ± 5.0 fL	94.0 ± 5.0 fL
	MCH	25.8 ± 2.5 pg	25.8 ± 2.5 pg	30.0 ± 2.5 pg	30.0 ± 2.5 pg	33.4 ± 2.5 pg	33.4 ± 2.5 pg
	MCHC	33.5 ± 3.0 g/dL	335 ± 30 g/L	35.1 ± 3.0 g/dL	351 ± 30 g/L	35.5 ± 3.0 g/dL	355 ± 30 g/L
	RDW	15.8 ± 3.0 %	15.8 ± 3.0 %	15.6 ± 3.0 %	15.6 ± 3.0 %	14.4 ± 3.0 %	14.4 ± 3.0 %
	PLT	62 ± 20 × 10 ³ /μL	62 ± 20 × 10 ⁹ /L	255 ± 40 × 10 ³ /μL	255 ± 40 × 10 ⁹ /L	541 ± 60 × 10 ³ /μL	541 ± 60 × 10 ⁹ /L
	MPV	8.0 ± 3.0 fL	8.0 ± 3.0 fL	7.8 ± 3.0 fL	7.8 ± 3.0 fL	8.1 ± 3.0 fL	8.1 ± 3.0 fL
	Lymph	58.5 ± 12.0 %	58.5 ± 12.0 %	31.6 ± 8.0 %	31.6 ± 8.0 %	14.3 ± 8.0 %	14.3 ± 8.0 %
	Mid	9.6 ± 7.0 %	9.6 ± 7.0 %	5.9 ± 5.0 %	5.9 ± 5.0 %	4.0 ± 4.0 %	4.0 ± 4.0 %
	Gran	31.9 ± 9.0 %	31.9 ± 9.0 %	62.5 ± 8.0 %	62.5 ± 8.0 %	81.7 ± 9.0 %	81.7 ± 9.0 %
	Lymph#	1.3 ± 0.3 × 10 ³ /μL	1.3 ± 0.3 × 10 ⁹ /L	2.6 ± 0.7 × 10 ³ /μL	2.6 ± 0.7 × 10 ⁹ /L	3.0 ± 1.7 × 10 ³ /μL	3.0 ± 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 ± 0.8 × 10 ³ /μL	0.8 ± 0.8 × 10 ⁹ /L
	Gran#	0.7 ± 0.2 × 10 ³ /μL	0.7 ± 0.2 × 10 ⁹ /L	5.1 ± 0.7 × 10 ³ /μL	5.1 ± 0.7 × 10 ⁹ /L	17.1 ± 1.9 × 10 ³ /μL	17.1 ± 1.9 × 10 ⁹ /L
	BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	2.2 ± 0.5 × 10 ³ /μL	2.2 ± 0.5 × 10 ⁹ /L	8.2 ± 1.0 × 10 ³ /μL	8.2 ± 1.0 × 10 ⁹ /L	21.5 ± 2.5 × 10 ³ /μL
RBC		2.37 ± 0.18 × 10 ⁶ /μL	2.37 ± 0.18 × 10 ¹² /L	4.76 ± 0.24 × 10 ⁶ /μL	4.76 ± 0.24 × 10 ¹² /L	5.94 ± 0.30 × 10 ⁶ /μL	5.94 ± 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	19.0 ± 0.8 g/dL	190 ± 8 g/L
HCT		18.1 ± 1.5 %	18.1 ± 1.5 %	40.5 ± 2.0 %	40.5 ± 2.0 %	55.2 ± 2.4 %	55.2 ± 2.4 %
MCV		76.5 ± 5.0 fL	76.5 ± 5.0 fL	85.0 ± 5.0 fL	85.0 ± 5.0 fL	93.0 ± 5.0 fL	93.0 ± 5.0 fL
MCH		25.3 ± 2.5 pg	25.3 ± 2.5 pg	28.8 ± 2.5 pg	28.8 ± 2.5 pg	32.0 ± 2.5 pg	32.0 ± 2.5 pg
MCHC		33.1 ± 3.0 g/dL	331 ± 30 g/L	33.9 ± 3.0 g/dL	339 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 30 g/L
RDW-CV		16.8 ± 3.0 %	16.8 ± 3.0 %	16.1 ± 3.0 %	16.1 ± 3.0 %	14.9 ± 3.0 %	14.9 ± 3.0 %
RDW-SD		36.9 ± 8.0 fL	36.9 ± 8.0 fL	42.0 ± 8.0 fL	42.0 ± 8.0 fL	45.3 ± 8.0 fL	45.3 ± 8.0 fL
PLT		65 ± 20 × 10 ³ /μL	65 ± 20 × 10 ⁹ /L	257 ± 40 × 10 ³ /μL	257 ± 40 × 10 ⁹ /L	538 ± 60 × 10 ³ /μL	538 ± 60 × 10 ⁹ /L
MPV		8.9 ± 3.0 fL	8.9 ± 3.0 fL	8.9 ± 3.0 fL	8.9 ± 3.0 fL	9.1 ± 3.0 fL	9.1 ± 3.0 fL
*PCT		0.058 ± 0.050 %	0.058 ± 0.050 %	0.229 ± 0.100 %	0.229 ± 0.100 %	0.490 ± 0.200 %	0.490 ± 0.200 %
*PDW		15.3 ± 3.0	15.3 ± 3.0	15.6 ± 3.0	15.6 ± 3.0	15.9 ± 3.0	15.9 ± 3.0
*P-LCC		19 ± 10 × 10 ³ /μL	19 ± 10 × 10 ⁹ /L	75 ± 22 × 10 ³ /μL	75 ± 22 × 10 ⁹ /L	160 ± 30 × 10 ³ /μL	160 ± 30 × 10 ⁹ /L
*P-LCR		29.7 ± 9.0 %	29.7 ± 9.0 %	29.2 ± 9.0 %	29.2 ± 9.0 %	29.7 ± 9.0 %	29.7 ± 9.0 %
Lymph		58.0 ± 9.0 %	58.0 ± 9.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	14.5 ± 8.0 %	14.5 ± 8.0 %
Mid		11.6 ± 10.0 %	11.6 ± 10.0 %	7.8 ± 7.0 %	7.8 ± 7.0 %	4.8 ± 4.0 %	4.8 ± 4.0 %
Gran	30.4 ± 9.0 %	30.4 ± 9.0 %	60.7 ± 8.0 %	60.7 ± 8.0 %	80.7 ± 9.0 %	80.7 ± 9.0 %	
Lymph#	1.3 ± 0.3 × 10 ³ /μL	1.3 ± 0.3 × 10 ⁹ /L	2.6 ± 0.7 × 10 ³ /μL	2.6 ± 0.7 × 10 ⁹ /L	3.1 ± 1.8 × 10 ³ /μL	3.1 ± 1.8 × 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	1.0 ± 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	5.0 ± 0.7 × 10 ³ /μL	5.0 ± 0.7 × 10 ⁹ /L	17.4 ± 2.0 × 10 ³ /μL	17.4 ± 2.0 × 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

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ASSAY VALUES AND EXPECTED RANGES

 **B0821**
**2021-11-05**

Instrument	Parameter	Low		Normal		High	
		LOT B0821L		LOT B0821N		LOT B0821H	
		The U.S. Units	The International Units	The U.S. Units	The International Units	The U.S. Units	The International Units
BC-3200	WBC	2.3 ± 0.5 × 10 ³ /μL	2.3 ± 0.5 × 10 ⁹ /L	8.5 ± 1.0 × 10 ³ /μL	8.5 ± 1.0 × 10 ⁹ /L	22.0 ± 2.5 × 10 ³ /μL	22.0 ± 2.5 × 10 ⁹ /L
	RBC	2.34 ± 0.18 × 10 ⁶ /μL	2.34 ± 0.18 × 10 ¹² /L	4.69 ± 0.24 × 10 ⁶ /μL	4.69 ± 0.24 × 10 ¹² /L	5.80 ± 0.30 × 10 ⁶ /μL	5.80 ± 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	19.0 ± 0.8 g/dL	190 ± 8 g/L
	HCT	17.8 ± 1.5 %	17.8 ± 1.5 %	40.0 ± 2.0 %	40.0 ± 2.0 %	54.7 ± 2.4 %	54.7 ± 2.4 %
	MCV	76.1 ± 5.0 fL	76.1 ± 5.0 fL	85.2 ± 5.0 fL	85.2 ± 5.0 fL	94.3 ± 5.0 fL	94.3 ± 5.0 fL
	MCH	25.2 ± 2.5 pg	25.2 ± 2.5 pg	29.2 ± 2.5 pg	29.2 ± 2.5 pg	32.8 ± 2.5 pg	32.8 ± 2.5 pg
	MCHC	33.1 ± 3.0 g/dL	331 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L	34.7 ± 3.0 g/dL	347 ± 30 g/L
	*RDW	15.8 ± 3.0 %	15.8 ± 3.0 %	14.7 ± 3.0 %	14.7 ± 3.0 %	14.1 ± 3.0 %	14.1 ± 3.0 %
	PLT	75 ± 20 × 10 ³ /μL	75 ± 20 × 10 ⁹ /L	264 ± 40 × 10 ³ /μL	264 ± 40 × 10 ⁹ /L	522 ± 60 × 10 ³ /μL	522 ± 60 × 10 ⁹ /L
	*MPV	8.6 ± 3.0 fL	8.6 ± 3.0 fL	8.0 ± 3.0 fL	8.0 ± 3.0 fL	7.9 ± 3.0 fL	7.9 ± 3.0 fL
	Lymph	51.5 ± 12.0 %	51.5 ± 12.0 %	28.5 ± 8.0 %	28.5 ± 8.0 %	14.5 ± 8.0 %	14.5 ± 8.0 %
	*Mid	14.5 ± 11.0 %	14.5 ± 11.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %	7.5 ± 6.0 %	7.5 ± 6.0 %
	Gran	34.0 ± 10.0 %	34.0 ± 10.0 %	64.5 ± 9.0 %	64.5 ± 9.0 %	78.0 ± 9.0 %	78.0 ± 9.0 %
	Lymph#	1.2 ± 0.3 × 10 ³ /μL	1.2 ± 0.3 × 10 ⁹ /L	2.4 ± 0.7 × 10 ³ /μL	2.4 ± 0.7 × 10 ⁹ /L	3.2 ± 1.8 × 10 ³ /μL	3.2 ± 1.8 × 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	1.7 ± 1.4 × 10 ³ /μL	1.7 ± 1.4 × 10 ⁹ /L
	Gran#	0.8 ± 0.3 × 10 ³ /μL	0.8 ± 0.3 × 10 ⁹ /L	5.5 ± 0.8 × 10 ³ /μL	5.5 ± 0.8 × 10 ⁹ /L	17.2 ± 2.0 × 10 ³ /μL	17.2 ± 2.0 × 10 ⁹ /L

* For new software version 01.07.00 or greater.

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