

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0521



2021-08-05

Instrument	Parameter	Low		Normal		High	
		LOT B0521L	LOT B0521N	LOT B0521H	LOT B0521H		
		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	7.8 ± 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	2.30 ± 0.18 × 10 ⁶ /μL	2.30 ± 0.18 × 10 ¹² /L	4.58 ± 0.24 × 10 ⁶ /μL	4.58 ± 0.24 × 10 ¹² /L	5.70 ± 0.30 × 10 ⁶ /μL	5.70 ± 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	19.2 ± 0.8 g/dL	192 ± 8 g/L
	HCT	17.8 ± 1.5 %	17.8 ± 1.5 %	39.6 ± 2.0 %	39.6 ± 2.0 %	54.2 ± 2.4 %	54.2 ± 2.4 %
	MCV	77.5 ± 5.0 fL	77.5 ± 5.0 fL	86.5 ± 5.0 fL	86.5 ± 5.0 fL	95.0 ± 5.0 fL	95.0 ± 5.0 fL
	MCH	25.7 ± 2.5 pg	25.7 ± 2.5 pg	30.1 ± 2.5 pg	30.1 ± 2.5 pg	33.7 ± 2.5 pg	33.7 ± 2.5 pg
	MCHC	33.1 ± 3.0 g/dL	331 ± 30 g/L	34.8 ± 3.0 g/dL	348 ± 30 g/L	35.5 ± 3.0 g/dL	355 ± 30 g/L
	RDW	16.5 ± 3.0 %	16.5 ± 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	8.0 ± 3.0 fL	8.0 ± 3.0 fL	8.3 ± 3.0 fL	8.3 ± 3.0 fL	8.4 ± 3.0 fL	8.4 ± 3.0 fL
	Lymph	62.5 ± 12.0 %	62.5 ± 12.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
	Mid	7.5 ± 7.0 %	7.5 ± 7.0 %	7.0 ± 5.0 %	7.0 ± 5.0 %	5.0 ± 4.0 %	5.0 ± 4.0 %
	Gran	30.0 ± 9.0 %	30.0 ± 9.0 %	61.5 ± 8.0 %	61.5 ± 8.0 %	81.5 ± 9.0 %	81.5 ± 9.0 %
	Lymph#	1.3 ± 0.3 × 10 ³ /μL	1.3 ± 0.3 × 10 ⁹ /L	2.5 ± 0.7 × 10 ³ /μL	2.5 ± 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	0.5 ± 0.4 × 10 ³ /μL	0.5 ± 0.4 × 10 ⁹ /L	1.0 ± 0.8 × 10 ³ /μL	1.0 ± 0.8 × 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
	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	21.3 ± 2.5 × 10 ³ /μL
RBC		2.37 ± 0.18 × 10 ⁶ /μL	2.37 ± 0.18 × 10 ¹² /L	4.67 ± 0.24 × 10 ⁶ /μL	4.67 ± 0.24 × 10 ¹² /L	5.76 ± 0.30 × 10 ⁶ /μL	5.76 ± 0.30 × 10 ¹² /L
HGB		6.1 ± 0.4 g/dL	61 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.7 ± 0.8 g/dL	187 ± 8 g/L
HCT		18.6 ± 1.5 %	18.6 ± 1.5 %	40.9 ± 2.0 %	40.9 ± 2.0 %	54.7 ± 2.4 %	54.7 ± 2.4 %
MCV		78.6 ± 5.0 fL	78.6 ± 5.0 fL	87.6 ± 5.0 fL	87.6 ± 5.0 fL	95.0 ± 5.0 fL	95.0 ± 5.0 fL
MCH		25.7 ± 2.5 pg	25.7 ± 2.5 pg	29.3 ± 2.5 pg	29.3 ± 2.5 pg	32.5 ± 2.5 pg	32.5 ± 2.5 pg
MCHC		32.7 ± 3.0 g/dL	327 ± 30 g/L	33.5 ± 3.0 g/dL	335 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L
RDW-CV		17.5 ± 3.0 %	17.5 ± 3.0 %	15.0 ± 3.0 %	15.0 ± 3.0 %	14.5 ± 3.0 %	14.5 ± 3.0 %
RDW-SD		42.0 ± 8.0 fL	42.0 ± 8.0 fL	42.5 ± 8.0 fL	42.5 ± 8.0 fL	45.5 ± 8.0 fL	45.5 ± 8.0 fL
PLT		61 ± 20 × 10 ³ /μL	61 ± 20 × 10 ⁹ /L	253 ± 40 × 10 ³ /μL	253 ± 40 × 10 ⁹ /L	520 ± 60 × 10 ³ /μL	520 ± 60 × 10 ⁹ /L
MPV		8.8 ± 3.0 fL	8.8 ± 3.0 fL	9.4 ± 3.0 fL	9.4 ± 3.0 fL	9.4 ± 3.0 fL	9.4 ± 3.0 fL
*PCT		0.054 ± 0.050 %	0.054 ± 0.050 %	0.238 ± 0.100 %	0.238 ± 0.100 %	0.489 ± 0.200 %	0.489 ± 0.200 %
*PDW		15.2 ± 3.0 %	15.2 ± 3.0 %	15.7 ± 3.0 %	15.7 ± 3.0 %	15.9 ± 3.0 %	15.9 ± 3.0 %
*P-LCC		17 ± 10 × 10 ³ /μL	17 ± 10 × 10 ⁹ /L	80 ± 22 × 10 ³ /μL	80 ± 22 × 10 ⁹ /L	163 ± 30 × 10 ³ /μL	163 ± 30 × 10 ⁹ /L
*P-LCR		28.6 ± 9.0 %	28.6 ± 9.0 %	31.8 ± 9.0 %	31.8 ± 9.0 %	31.4 ± 9.0 %	31.4 ± 9.0 %
Lymph		62.0 ± 9.0 %	62.0 ± 9.0 %	31.3 ± 8.0 %	31.3 ± 8.0 %	13.7 ± 8.0 %	13.7 ± 8.0 %
Mid		9.4 ± 8.0 %	9.4 ± 8.0 %	8.9 ± 7.0 %	8.9 ± 7.0 %	5.8 ± 5.0 %	5.8 ± 5.0 %
Gran	28.6 ± 9.0 %	28.6 ± 9.0 %	59.8 ± 8.0 %	59.8 ± 8.0 %	80.5 ± 9.0 %	80.5 ± 9.0 %	
Lymph#	1.2 ± 0.3 × 10 ³ /μL	1.2 ± 0.3 × 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	0.7 ± 0.6 × 10 ³ /μL	0.7 ± 0.6 × 10 ⁹ /L	1.2 ± 1.1 × 10 ³ /μL	1.2 ± 1.1 × 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 ± 2.0 × 10 ³ /μL	17.2 ± 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

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT B0521



2021-08-05

Instrument	Parameter	Low		Normal		High	
		LOT B0521L	LOT B0521L	LOT B0521N	LOT B0521N	LOT B0521H	LOT B0521H
		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	21.7 ± 2.5 × 10 ³ /μL	21.7 ± 2.5 × 10 ⁹ /L
	RBC	2.30 ± 0.18 × 10 ⁶ /μL	2.30 ± 0.18 × 10 ¹² /L	4.55 ± 0.24 × 10 ⁶ /μL	4.55 ± 0.24 × 10 ¹² /L	5.64 ± 0.30 × 10 ⁶ /μL	5.64 ± 0.30 × 10 ¹² /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.7 ± 0.8 g/dL	187 ± 8 g/L
	HCT	17.7 ± 1.5 %	17.7 ± 1.5 %	39.8 ± 2.0 %	39.8 ± 2.0 %	53.9 ± 2.4 %	53.9 ± 2.4 %
	MCV	76.9 ± 5.0 fL	76.9 ± 5.0 fL	87.4 ± 5.0 fL	87.4 ± 5.0 fL	95.5 ± 5.0 fL	95.5 ± 5.0 fL
	MCH	26.1 ± 2.5 pg	26.1 ± 2.5 pg	29.9 ± 2.5 pg	29.9 ± 2.5 pg	33.2 ± 2.5 pg	33.2 ± 2.5 pg
	MCHC	33.9 ± 3.0 g/dL	339 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L	34.7 ± 3.0 g/dL	347 ± 30 g/L
	*RDW	15.5 ± 3.0 %	15.5 ± 3.0 %	13.5 ± 3.0 %	13.5 ± 3.0 %	13.0 ± 3.0 %	13.0 ± 3.0 %
	PLT	69 ± 20 × 10 ³ /μL	69 ± 20 × 10 ⁹ /L	248 ± 40 × 10 ³ /μL	248 ± 40 × 10 ⁹ /L	499 ± 60 × 10 ³ /μL	499 ± 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	8.1 ± 3.0 fL	8.1 ± 3.0 fL
	Lymph	55.0 ± 12.0 %	55.0 ± 12.0 %	28.5 ± 8.0 %	28.5 ± 8.0 %	12.5 ± 8.0 %	12.5 ± 8.0 %
	*Mid	12.0 ± 11.0 %	12.0 ± 11.0 %	9.5 ± 7.0 %	9.5 ± 7.0 %	6.0 ± 5.0 %	6.0 ± 5.0 %
	Gran	33.0 ± 10.0 %	33.0 ± 10.0 %	62.0 ± 9.0 %	62.0 ± 9.0 %	81.5 ± 9.0 %	81.5 ± 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	2.7 ± 1.7 × 10 ³ /μL	2.7 ± 1.7 × 10 ⁹ /L
	*Mid#	0.2 ± 0.2 × 10 ³ /μL	0.2 ± 0.2 × 10 ⁹ /L	0.8 ± 0.6 × 10 ³ /μL	0.8 ± 0.6 × 10 ⁹ /L	1.3 ± 1.1 × 10 ³ /μL	1.3 ± 1.1 × 10 ⁹ /L
	Gran#	0.7 ± 0.3 × 10 ³ /μL	0.7 ± 0.3 × 10 ⁹ /L	5.1 ± 0.8 × 10 ³ /μL	5.1 ± 0.8 × 10 ⁹ /L	17.7 ± 2.0 × 10 ³ /μL	17.7 ± 2.0 × 10 ⁹ /L

* For new software version 01.07.00 or greater.

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