

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT B0224



2024-05-05

Instrument	Parameter	Low		Normal		High	
		LOT	B0224L	LOT	B0224N	LOT	B0224H
		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 <sup>3</sup> /μL	2.0 ± 0.5 × 10 <sup>9</sup> /L	7.8 ± 1.0 × 10 <sup>3</sup> /μL	7.8 ± 1.0 × 10 <sup>9</sup> /L	20.3 ± 2.5 × 10 <sup>3</sup> /μL	20.3 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.31 ± 0.18 × 10 <sup>6</sup> /μL	2.31 ± 0.18 × 10 <sup>12</sup> /L	4.52 ± 0.24 × 10 <sup>6</sup> /μL	4.52 ± 0.24 × 10 <sup>12</sup> /L	5.71 ± 0.30 × 10 <sup>6</sup> /μL	5.71 ± 0.30 × 10 <sup>12</sup> /L
	HGB	5.9 ± 0.4 g/dL	59 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	17.7 ± 1.5 %	17.7 ± 1.5 %	39.3 ± 2.0 %	39.3 ± 2.0 %	53.4 ± 2.4 %	53.4 ± 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	25.5 ± 2.5 pg	25.5 ± 2.5 pg	30.1 ± 2.5 pg	30.1 ± 2.5 pg	33.1 ± 2.5 pg	33.1 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	34.6 ± 3.0 g/dL	346 ± 30 g/L	35.4 ± 3.0 g/dL	354 ± 30 g/L
	RDW	15.5 ± 3.0 %	15.5 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	PLT	64 ± 20 × 10 <sup>3</sup> /μL	64 ± 20 × 10 <sup>9</sup> /L	254 ± 40 × 10 <sup>3</sup> /μL	254 ± 40 × 10 <sup>9</sup> /L	546 ± 60 × 10 <sup>3</sup> /μL	546 ± 60 × 10 <sup>9</sup> /L
	MPV	7.4 ± 3.0 fL	7.4 ± 3.0 fL	7.7 ± 3.0 fL	7.7 ± 3.0 fL	7.6 ± 3.0 fL	7.6 ± 3.0 fL
	Lymph	60.5 ± 9.0 %	60.5 ± 9.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
	Mid	7.5 ± 6.0 %	7.5 ± 6.0 %	5.5 ± 5.0 %	5.5 ± 5.0 %	3.5 ± 3.0 %	3.5 ± 3.0 %
	Gran	32.0 ± 9.0 %	32.0 ± 9.0 %	63.0 ± 8.0 %	63.0 ± 8.0 %	83.0 ± 9.0 %	83.0 ± 9.0 %
	Lymph#	1.2 ± 0.2 × 10 <sup>3</sup> /μL	1.2 ± 0.2 × 10 <sup>9</sup> /L	2.5 ± 0.7 × 10 <sup>3</sup> /μL	2.5 ± 0.7 × 10 <sup>9</sup> /L	2.7 ± 1.7 × 10 <sup>3</sup> /μL	2.7 ± 1.7 × 10 <sup>9</sup> /L
	Mid#	0.2 ± 0.2 × 10 <sup>3</sup> /μL	0.2 ± 0.2 × 10 <sup>9</sup> /L	0.4 ± 0.4 × 10 <sup>3</sup> /μL	0.4 ± 0.4 × 10 <sup>9</sup> /L	0.7 ± 0.6 × 10 <sup>3</sup> /μL	0.7 ± 0.6 × 10 <sup>9</sup> /L
	Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	4.9 ± 0.7 × 10 <sup>3</sup> /μL	4.9 ± 0.7 × 10 <sup>9</sup> /L	16.8 ± 1.9 × 10 <sup>3</sup> /μL	16.8 ± 1.9 × 10 <sup>9</sup> /L
	BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	2.0 ± 0.5 × 10 <sup>3</sup> /μL	2.0 ± 0.5 × 10 <sup>9</sup> /L	8.1 ± 1.0 × 10 <sup>3</sup> /μL	8.1 ± 1.0 × 10 <sup>9</sup> /L	21.2 ± 2.5 × 10 <sup>3</sup> /μL
RBC		2.39 ± 0.18 × 10 <sup>6</sup> /μL	2.39 ± 0.18 × 10 <sup>12</sup> /L	4.64 ± 0.24 × 10 <sup>6</sup> /μL	4.64 ± 0.24 × 10 <sup>12</sup> /L	5.85 ± 0.30 × 10 <sup>6</sup> /μL	5.85 ± 0.30 × 10 <sup>12</sup> /L
HGB		6.1 ± 0.4 g/dL	61 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
HCT		18.0 ± 1.5 %	18.0 ± 1.5 %	40.3 ± 2.0 %	40.3 ± 2.0 %	54.9 ± 2.4 %	54.9 ± 2.4 %
MCV		75.5 ± 5.0 fL	75.5 ± 5.0 fL	86.9 ± 5.0 fL	86.9 ± 5.0 fL	93.8 ± 5.0 fL	93.8 ± 5.0 fL
MCH		25.5 ± 2.5 pg	25.5 ± 2.5 pg	29.5 ± 2.5 pg	29.5 ± 2.5 pg	32.1 ± 2.5 pg	32.1 ± 2.5 pg
MCHC		33.8 ± 3.0 g/dL	338 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L
RDW-CV		17.9 ± 3.0 %	17.9 ± 3.0 %	14.3 ± 3.0 %	14.3 ± 3.0 %	14.2 ± 3.0 %	14.2 ± 3.0 %
RDW-SD		40.2 ± 8.0 fL	40.2 ± 8.0 fL	38.7 ± 8.0 fL	38.7 ± 8.0 fL	43.8 ± 8.0 fL	43.8 ± 8.0 fL
PLT		66 ± 20 × 10 <sup>3</sup> /μL	66 ± 20 × 10 <sup>9</sup> /L	259 ± 40 × 10 <sup>3</sup> /μL	259 ± 40 × 10 <sup>9</sup> /L	552 ± 60 × 10 <sup>3</sup> /μL	552 ± 60 × 10 <sup>9</sup> /L
MPV		8.3 ± 3.0 fL	8.3 ± 3.0 fL	8.7 ± 3.0 fL	8.7 ± 3.0 fL	8.8 ± 3.0 fL	8.8 ± 3.0 fL
*PCT		0.055 ± 0.050 %	0.055 ± 0.050 %	0.225 ± 0.100 %	0.225 ± 0.100 %	0.486 ± 0.200 %	0.486 ± 0.200 %
*PDW		15.1 ± 3.0	15.1 ± 3.0	15.8 ± 3.0	15.8 ± 3.0	16.0 ± 3.0	16.0 ± 3.0
*P-LCC		16 ± 10 × 10 <sup>3</sup> /μL	16 ± 10 × 10 <sup>9</sup> /L	71 ± 22 × 10 <sup>3</sup> /μL	71 ± 22 × 10 <sup>9</sup> /L	151 ± 30 × 10 <sup>3</sup> /μL	151 ± 30 × 10 <sup>9</sup> /L
*P-LCR		24.8 ± 12.0 %	24.8 ± 12.0 %	27.3 ± 9.0 %	27.3 ± 9.0 %	27.3 ± 9.0 %	27.3 ± 9.0 %
Lymph		60.7 ± 9.0 %	60.7 ± 9.0 %	32.2 ± 8.0 %	32.2 ± 8.0 %	14.4 ± 8.0 %	14.4 ± 8.0 %
Mid		8.9 ± 8.9 %	8.9 ± 8.9 %	6.5 ± 6.5 %	6.5 ± 6.5 %	3.8 ± 3.8 %	3.8 ± 3.8 %
Gran	30.4 ± 9.0 %	30.4 ± 9.0 %	61.3 ± 8.0 %	61.3 ± 8.0 %	81.8 ± 9.0 %	81.8 ± 9.0 %	
Lymph#	1.2 ± 0.2 × 10 <sup>3</sup> /μL	1.2 ± 0.2 × 10 <sup>9</sup> /L	2.6 ± 0.7 × 10 <sup>3</sup> /μL	2.6 ± 0.7 × 10 <sup>9</sup> /L	3.1 ± 1.8 × 10 <sup>3</sup> /μL	3.1 ± 1.8 × 10 <sup>9</sup> /L	
Mid#	0.2 ± 0.2 × 10 <sup>3</sup> /μL	0.2 ± 0.2 × 10 <sup>9</sup> /L	0.5 ± 0.5 × 10 <sup>3</sup> /μL	0.5 ± 0.5 × 10 <sup>9</sup> /L	0.8 ± 0.8 × 10 <sup>3</sup> /μL	0.8 ± 0.8 × 10 <sup>9</sup> /L	
Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	5.0 ± 0.7 × 10 <sup>3</sup> /μL	5.0 ± 0.7 × 10 <sup>9</sup> /L	17.3 ± 1.9 × 10 <sup>3</sup> /μL	17.3 ± 1.9 × 10 <sup>9</sup> /L	

THIS  
ANALYZER  
NOT  
APPROVED  
FOR USE IN  
THE US

\* For Research Use Only.  
Before using, refer to the instruction sheet for mixing directions.

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# BC-3D

## HEMATOLOGY CONTROLS

CONTROL
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## ASSAY VALUES AND EXPECTED RANGES

LOT	B0224
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2024-05-05

Instrument	Parameter	Low		Normal		High	
		LOT	B0224L	LOT	B0224N	LOT	B0224H
		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 <sup>9</sup> /μL	2.1 ± 0.5 × 10 <sup>9</sup> /L	8.4 ± 1.0 × 10 <sup>9</sup> /μL	8.4 ± 1.0 × 10 <sup>9</sup> /L	21.9 ± 2.5 × 10 <sup>9</sup> /μL	21.9 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.33 ± 0.18 × 10 <sup>6</sup> /μL	2.33 ± 0.18 × 10 <sup>12</sup> /L	4.53 ± 0.24 × 10 <sup>6</sup> /μL	4.53 ± 0.24 × 10 <sup>12</sup> /L	5.71 ± 0.30 × 10 <sup>6</sup> /μL	5.71 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.7 ± 0.6 g/dL	137 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	17.5 ± 1.5 %	17.5 ± 1.5 %	39.6 ± 2.0 %	39.6 ± 2.0 %	54.6 ± 2.4 %	54.6 ± 2.4 %
	MCV	75.3 ± 5.0 fL	75.3 ± 5.0 fL	87.5 ± 5.0 fL	87.5 ± 5.0 fL	95.6 ± 5.0 fL	95.6 ± 5.0 fL
	MCH	25.8 ± 2.5 pg	25.8 ± 2.5 pg	30.2 ± 2.5 pg	30.2 ± 2.5 pg	32.9 ± 2.5 pg	32.9 ± 2.5 pg
	MCHC	34.2 ± 3.0 g/dL	342 ± 30 g/L	34.6 ± 3.0 g/dL	346 ± 30 g/L	34.4 ± 3.0 g/dL	344 ± 30 g/L
	*RDW	16.1 ± 3.0 %	16.1 ± 3.0 %	14.4 ± 3.0 %	14.4 ± 3.0 %	14.2 ± 3.0 %	14.2 ± 3.0 %
	PLT	75 ± 20 × 10 <sup>3</sup> /μL	75 ± 20 × 10 <sup>9</sup> /L	263 ± 40 × 10 <sup>3</sup> /μL	263 ± 40 × 10 <sup>9</sup> /L	539 ± 60 × 10 <sup>3</sup> /μL	539 ± 60 × 10 <sup>9</sup> /L
	*MPV	7.9 ± 3.0 fL	7.9 ± 3.0 fL	7.5 ± 3.0 fL	7.5 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL
	Lymph	52.0 ± 12.0 %	52.0 ± 12.0 %	28.0 ± 8.0 %	28.0 ± 8.0 %	16.0 ± 7.0 %	16.0 ± 7.0 %
	*Mid	14.5 ± 10.0 %	14.5 ± 10.0 %	7.0 ± 6.0 %	7.0 ± 6.0 %	11.0 ± 9.0 %	11.0 ± 9.0 %
	Gran	33.5 ± 9.0 %	33.5 ± 9.0 %	65.0 ± 8.0 %	65.0 ± 8.0 %	73.0 ± 10.0 %	73.0 ± 10.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.4 ± 0.7 × 10 <sup>3</sup> /μL	2.4 ± 0.7 × 10 <sup>9</sup> /L	3.5 ± 1.6 × 10 <sup>3</sup> /μL	3.5 ± 1.6 × 10 <sup>9</sup> /L
	*Mid#	0.3 ± 0.3 × 10 <sup>3</sup> /μL	0.3 ± 0.3 × 10 <sup>9</sup> /L	0.6 ± 0.5 × 10 <sup>3</sup> /μL	0.6 ± 0.5 × 10 <sup>9</sup> /L	2.4 ± 2.0 × 10 <sup>3</sup> /μL	2.4 ± 2.0 × 10 <sup>9</sup> /L
	Gran#	0.7 ± 0.2 × 10 <sup>3</sup> /μL	0.7 ± 0.2 × 10 <sup>9</sup> /L	5.5 ± 0.7 × 10 <sup>3</sup> /μL	5.5 ± 0.7 × 10 <sup>9</sup> /L	16.0 ± 2.2 × 10 <sup>3</sup> /μL	16.0 ± 2.2 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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