

# BC-3D

## HEMATOLOGY CONTROLS

CONTROL

## ASSAY VALUES AND EXPECTED RANGES

LOT

 B1124


2025-02-05

Instrument	Parameter	Low		Normal		High	
		<div>LOT</div> B1124L		<div>LOT</div> B1124N		<div>LOT</div> B1124H	
		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 <sup>9</sup> /μL	1.9 ± 0.5 × 10 <sup>9</sup> /L	7.6 ± 1.0 × 10 <sup>9</sup> /μL	7.6 ± 1.0 × 10 <sup>9</sup> /L	20.2 ± 2.5 × 10 <sup>9</sup> /μL	20.2 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.32 ± 0.18 × 10 <sup>6</sup> /μL	2.32 ± 0.18 × 10 <sup>12</sup> /L	4.65 ± 0.24 × 10 <sup>6</sup> /μL	4.65 ± 0.24 × 10 <sup>12</sup> /L	5.76 ± 0.30 × 10 <sup>6</sup> /μL	5.76 ± 0.30 × 10 <sup>12</sup> /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	17.7 ± 1.5 %	17.7 ± 1.5 %	40.2 ± 2.0 %	40.2 ± 2.0 %	54.7 ± 2.4 %	54.7 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	86.5 ± 5.0 fL	86.5 ± 5.0 fL	95.0 ± 5.0 fL	95.0 ± 5.0 fL
	MCH	25.4 ± 2.5 pg	25.4 ± 2.5 pg	29.7 ± 2.5 pg	29.7 ± 2.5 pg	33.3 ± 2.5 pg	33.3 ± 2.5 pg
	MCHC	33.2 ± 3.0 g/dL	332 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 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	59 ± 20 × 10 <sup>3</sup> /μL	59 ± 20 × 10 <sup>9</sup> /L	250 ± 40 × 10 <sup>3</sup> /μL	250 ± 40 × 10 <sup>9</sup> /L	531 ± 60 × 10 <sup>3</sup> /μL	531 ± 60 × 10 <sup>9</sup> /L
	MPV	7.2 ± 3.0 fL	7.2 ± 3.0 fL	7.5 ± 3.0 fL	7.5 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL
	Lymph	60.0 ± 9.0 %	60.0 ± 9.0 %	31.5 ± 8.0 %	31.5 ± 8.0 %	15.0 ± 8.0 %	15.0 ± 8.0 %
	Mid	10.0 ± 8.0 %	10.0 ± 8.0 %	5.5 ± 4.0 %	5.5 ± 4.0 %	4.0 ± 3.0 %	4.0 ± 3.0 %
	Gran	30.0 ± 9.0 %	30.0 ± 9.0 %	63.0 ± 8.0 %	63.0 ± 8.0 %	81.0 ± 9.0 %	81.0 ± 9.0 %
	Lymph#	1.1 ± 0.2 × 10 <sup>3</sup> /μL	1.1 ± 0.2 × 10 <sup>9</sup> /L	2.4 ± 0.7 × 10 <sup>3</sup> /μL	2.4 ± 0.7 × 10 <sup>9</sup> /L	3.0 ± 1.6 × 10 <sup>3</sup> /μL	3.0 ± 1.6 × 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 ± 0.3 × 10 <sup>3</sup> /μL	0.4 ± 0.3 × 10 <sup>9</sup> /L	0.8 ± 0.6 × 10 <sup>3</sup> /μL	0.8 ± 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	4.8 ± 0.7 × 10 <sup>3</sup> /μL	4.8 ± 0.7 × 10 <sup>9</sup> /L	16.4 ± 1.9 × 10 <sup>3</sup> /μL	16.4 ± 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>9</sup> /μL	2.0 ± 0.5 × 10 <sup>9</sup> /L	7.2 ± 1.0 × 10 <sup>9</sup> /μL	7.2 ± 1.0 × 10 <sup>9</sup> /L	20.6 ± 2.5 × 10 <sup>9</sup> /μL	20.6 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.43 ± 0.18 × 10 <sup>6</sup> /μL	2.43 ± 0.18 × 10 <sup>12</sup> /L	4.75 ± 0.24 × 10 <sup>6</sup> /μL	4.75 ± 0.24 × 10 <sup>12</sup> /L	5.90 ± 0.30 × 10 <sup>6</sup> /μL	5.90 ± 0.30 × 10 <sup>12</sup> /L
	HGB	6.2 ± 0.4 g/dL	62 ± 4 g/L	13.6 ± 0.6 g/dL	136 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	18.6 ± 1.5 %	18.6 ± 1.5 %	40.8 ± 2.0 %	40.8 ± 2.0 %	55.3 ± 2.4 %	55.3 ± 2.4 %
	MCV	76.6 ± 5.0 fL	76.6 ± 5.0 fL	85.8 ± 5.0 fL	85.8 ± 5.0 fL	93.8 ± 5.0 fL	93.8 ± 5.0 fL
	MCH	25.5 ± 2.5 pg	25.5 ± 2.5 pg	28.6 ± 2.5 pg	28.6 ± 2.5 pg	32.0 ± 2.5 pg	32.0 ± 2.5 pg
	MCHC	33.3 ± 3.0 g/dL	333 ± 30 g/L	33.4 ± 3.0 g/dL	334 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L
	RDW-CV	16.3 ± 3.0 %	16.3 ± 3.0 %	14.6 ± 3.0 %	14.6 ± 3.0 %	13.6 ± 3.0 %	13.6 ± 3.0 %
	RDW-SD	36.3 ± 8.0 fL	36.3 ± 8.0 fL	39.3 ± 8.0 fL	39.3 ± 8.0 fL	41.8 ± 8.0 fL	41.8 ± 8.0 fL
	PLT	64 ± 20 × 10 <sup>3</sup> /μL	64 ± 20 × 10 <sup>9</sup> /L	257 ± 40 × 10 <sup>3</sup> /μL	257 ± 40 × 10 <sup>9</sup> /L	531 ± 60 × 10 <sup>3</sup> /μL	531 ± 60 × 10 <sup>9</sup> /L
	MPV	8.6 ± 3.0 fL	8.6 ± 3.0 fL	8.7 ± 3.0 fL	8.7 ± 3.0 fL	8.7 ± 3.0 fL	8.7 ± 3.0 fL
	*PCT	0.055 ± 0.050 %	0.055 ± 0.050 %	0.224 ± 0.100 %	0.224 ± 0.100 %	0.462 ± 0.200 %	0.462 ± 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	17 ± 10 × 10 <sup>3</sup> /μL	17 ± 10 × 10 <sup>9</sup> /L	70 ± 22 × 10 <sup>3</sup> /μL	70 ± 22 × 10 <sup>9</sup> /L	142 ± 30 × 10 <sup>3</sup> /μL	142 ± 30 × 10 <sup>9</sup> /L
	*P-LCR	26.9 ± 9.0 %	26.9 ± 9.0 %	27.2 ± 9.0 %	27.2 ± 9.0 %	26.7 ± 9.0 %	26.7 ± 9.0 %
	Lymph	59.2 ± 9.0 %	59.2 ± 9.0 %	33.2 ± 8.0 %	33.2 ± 8.0 %	15.9 ± 8.0 %	15.9 ± 8.0 %
	Mid	11.6 ± 11.6 %	11.6 ± 11.6 %	5.8 ± 5.8 %	5.8 ± 5.8 %	3.5 ± 3.5 %	3.5 ± 3.5 %
	Gran	29.2 ± 10.0 %	29.2 ± 10.0 %	61.0 ± 8.0 %	61.0 ± 8.0 %	80.6 ± 9.0 %	80.6 ± 9.0 %
	Lymph#	1.2 ± 0.2 × 10 <sup>3</sup> /μL	1.2 ± 0.2 × 10 <sup>9</sup> /L	2.4 ± 0.6 × 10 <sup>3</sup> /μL	2.4 ± 0.6 × 10 <sup>9</sup> /L	3.3 ± 1.7 × 10 <sup>3</sup> /μL	3.3 ± 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 ± 0.7 × 10 <sup>3</sup> /μL	0.7 ± 0.7 × 10 <sup>9</sup> /L
	Gran#	0.6 ± 0.2 × 10 <sup>3</sup> /μL	0.6 ± 0.2 × 10 <sup>9</sup> /L	4.4 ± 0.6 × 10 <sup>3</sup> /μL	4.4 ± 0.6 × 10 <sup>9</sup> /L	16.6 ± 1.9 × 10 <sup>3</sup> /μL	16.6 ± 1.9 × 10 <sup>9</sup> /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

 B1124


2025-02-05

Instrument	Parameter	Low		Normal		High	
		<div>LOT</div> B1124L		<div>LOT</div> B1124N		<div>LOT</div> B1124H	
		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>3</sup> /μL	2.1 ± 0.5 × 10 <sup>9</sup> /L	7.7 ± 1.0 × 10 <sup>3</sup> /μL	7.7 ± 1.0 × 10 <sup>9</sup> /L	21.5 ± 2.5 × 10 <sup>3</sup> /μL	21.5 ± 2.5 × 10 <sup>9</sup> /L
	RBC	2.39 ± 0.18 × 10 <sup>6</sup> /μL	2.39 ± 0.18 × 10 <sup>12</sup> /L	4.67 ± 0.24 × 10 <sup>6</sup> /μL	4.67 ± 0.24 × 10 <sup>12</sup> /L	5.83 ± 0.30 × 10 <sup>6</sup> /μL	5.83 ± 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	19.0 ± 0.8 g/dL	190 ± 8 g/L
	HCT	18.3 ± 1.5 %	18.3 ± 1.5 %	40.7 ± 2.0 %	40.7 ± 2.0 %	56.0 ± 2.4 %	56.0 ± 2.4 %
	MCV	76.5 ± 5.0 fL	76.5 ± 5.0 fL	87.1 ± 5.0 fL	87.1 ± 5.0 fL	96.0 ± 5.0 fL	96.0 ± 5.0 fL
	MCH	25.5 ± 2.5 pg	25.5 ± 2.5 pg	29.3 ± 2.5 pg	29.3 ± 2.5 pg	32.6 ± 2.5 pg	32.6 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	33.9 ± 3.0 g/dL	339 ± 30 g/L
	*RDW	14.7 ± 3.0 %	14.7 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	13.1 ± 3.0 %	13.1 ± 3.0 %
	PLT	74 ± 20 × 10 <sup>3</sup> /μL	74 ± 20 × 10 <sup>9</sup> /L	257 ± 40 × 10 <sup>3</sup> /μL	257 ± 40 × 10 <sup>9</sup> /L	513 ± 60 × 10 <sup>3</sup> /μL	513 ± 60 × 10 <sup>9</sup> /L
	*MPV	8.1 ± 3.0 fL	8.1 ± 3.0 fL	7.5 ± 3.0 fL	7.5 ± 3.0 fL	7.3 ± 3.0 fL	7.3 ± 3.0 fL
	Lymph	52.0 ± 12.0 %	52.0 ± 12.0 %	29.0 ± 8.0 %	29.0 ± 8.0 %	15.5 ± 7.0 %	15.5 ± 7.0 %
	*Mid	15.5 ± 10.0 %	15.5 ± 10.0 %	7.5 ± 6.0 %	7.5 ± 6.0 %	7.0 ± 6.5 %	7.0 ± 6.5 %
	Gran	32.5 ± 9.0 %	32.5 ± 9.0 %	63.5 ± 8.0 %	63.5 ± 8.0 %	77.5 ± 10.0 %	77.5 ± 10.0 %
	Lymph#	1.1 ± 0.3 × 10 <sup>3</sup> /μL	1.1 ± 0.3 × 10 <sup>9</sup> /L	2.2 ± 0.7 × 10 <sup>3</sup> /μL	2.2 ± 0.7 × 10 <sup>9</sup> /L	3.3 ± 1.5 × 10 <sup>3</sup> /μL	3.3 ± 1.5 × 10 <sup>9</sup> /L
	*Mid#	0.3 ± 0.2 × 10 <sup>3</sup> /μL	0.3 ± 0.2 × 10 <sup>9</sup> /L	0.6 ± 0.5 × 10 <sup>3</sup> /μL	0.6 ± 0.5 × 10 <sup>9</sup> /L	1.5 ± 1.4 × 10 <sup>3</sup> /μL	1.5 ± 1.4 × 10 <sup>9</sup> /L
	Gran#	0.7 ± 0.2 × 10 <sup>3</sup> /μL	0.7 ± 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	16.7 ± 2.2 × 10 <sup>3</sup> /μL	16.7 ± 2.2 × 10 <sup>9</sup> /L

\* For new software version 01.07.00 or greater.

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

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