

AS902 Rev.009

BC-3D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

B1126



2027-02-05

Instrument	Parameter		Low		Normal		High	
			LOT	B1126L	LOT	B1126N	LOT	B1126H
BC-3600, BC-3300	WBC	$\times 10^3/\mu\text{L}$		2.1 $\pm$ 0.5		7.9 $\pm$ 1.0		21.3 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.33 $\pm$ 0.20		4.75 $\pm$ 0.28		5.96 $\pm$ 0.35
	HGB	g/dL		6.2 $\pm$ 0.5		13.8 $\pm$ 0.8		18.9 $\pm$ 1.0
	HCT	%		18.5 $\pm$ 2.0		41.0 $\pm$ 3.0		55.7 $\pm$ 4.0
	MCV	fL		79.2 $\pm$ 5.0		86.4 $\pm$ 5.0		93.5 $\pm$ 5.0
	MCH	pg		26.6 $\pm$ 2.5		29.1 $\pm$ 2.5		31.7 $\pm$ 2.5
	MCHC	g/dL		33.6 $\pm$ 3.0		33.6 $\pm$ 3.0		33.9 $\pm$ 3.0
	RDW-CV	%		16.7 $\pm$ 3.0		14.9 $\pm$ 3.0		14.6 $\pm$ 3.0
	RDW-SD	fL		39.1 $\pm$ 10.0		41.5 $\pm$ 10.0		45.7 $\pm$ 10.0
	PLT	$\times 10^3/\mu\text{L}$		68 $\pm$ 30		252 $\pm$ 55		526 $\pm$ 70
	MPV	fL		8.8 $\pm$ 3.0		8.7 $\pm$ 3.0		8.4 $\pm$ 3.0
	PCT*	%		0.060 $\pm$ 0.050		0.219 $\pm$ 0.100		0.442 $\pm$ 0.200
	PDW*	/		15.4 $\pm$ 3.0		15.6 $\pm$ 3.0		15.8 $\pm$ 3.0
	P-LCC	$\times 10^9/\text{L}$		20 $\pm$ 15		69 $\pm$ 25		127 $\pm$ 35
	P-LCR	%		29.3 $\pm$ 10.0		27.3 $\pm$ 10.0		24.2 $\pm$ 10.0
	Lymph%	%		57.6 $\pm$ 12.0		29.8 $\pm$ 9.0		13.6 $\pm$ 8.0
	Mid%	%		12.7 $\pm$ 11.5		9.0 $\pm$ 9.0		5.5 $\pm$ 5.5
	Gran%	%		29.7 $\pm$ 12.0		61.2 $\pm$ 10.0		80.9 $\pm$ 10.0
	Lymph#	$\times 10^3/\mu\text{L}$		1.2 $\pm$ 0.3		2.4 $\pm$ 0.8		2.9 $\pm$ 1.8
	Mid#	$\times 10^3/\mu\text{L}$		0.3 $\pm$ 0.3		0.7 $\pm$ 0.7		1.2 $\pm$ 1.2
	Gran#	$\times 10^3/\mu\text{L}$		0.6 $\pm$ 0.3		4.8 $\pm$ 0.9		17.2 $\pm$ 2.2
BC-3000 Plus, BC-2900 BC-1800	WBC	$\times 10^3/\mu\text{L}$		2.1 $\pm$ 0.5		8.3 $\pm$ 1.0		21.9 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.36 $\pm$ 0.20		4.70 $\pm$ 0.28		5.90 $\pm$ 0.35
	HGB	g/dL		6.1 $\pm$ 0.5		14.0 $\pm$ 0.8		19.3 $\pm$ 1.0
	HCT	%		18.3 $\pm$ 2.0		40.7 $\pm$ 3.0		55.4 $\pm$ 4.0
	MCV	fL		77.6 $\pm$ 5.0		86.7 $\pm$ 5.0		93.9 $\pm$ 5.0
	MCH	pg		25.8 $\pm$ 2.5		29.8 $\pm$ 2.5		32.7 $\pm$ 2.5
	MCHC	g/dL		33.3 $\pm$ 3.0		34.4 $\pm$ 3.0		34.8 $\pm$ 3.0
	RDW-CV	%		17.3 $\pm$ 3.0		15.7 $\pm$ 3.0		15.0 $\pm$ 3.0
	RDW-SD	fL		45.7 $\pm$ 10.0		44.9 $\pm$ 10.0		48.0 $\pm$ 10.0
	PLT	$\times 10^3/\mu\text{L}$		73 $\pm$ 30		254 $\pm$ 55		525 $\pm$ 70
	MPV	fL		8.2 $\pm$ 3.0		7.8 $\pm$ 3.0		7.4 $\pm$ 3.0
	PCT*	%		0.060 $\pm$ 0.050		0.198 $\pm$ 0.100		0.389 $\pm$ 0.200
	PDW*	/		16.3 $\pm$ 3.0		15.7 $\pm$ 3.0		15.7 $\pm$ 3.0
	Lymph%	%		55.8 $\pm$ 12.0		27.3 $\pm$ 9.0		12.4 $\pm$ 8.0
	Mid%	%		13.4 $\pm$ 11.5		10.7 $\pm$ 10.0		6.5 $\pm$ 6.5
	Gran%	%		30.8 $\pm$ 12.0		62.0 $\pm$ 10.0		81.1 $\pm$ 10.0
	Lymph#	$\times 10^3/\mu\text{L}$		1.2 $\pm$ 0.3		2.3 $\pm$ 0.8		2.7 $\pm$ 1.8
	Mid#	$\times 10^3/\mu\text{L}$		0.3 $\pm$ 0.3		0.9 $\pm$ 0.9		1.4 $\pm$ 1.4
	Gran#	$\times 10^3/\mu\text{L}$		0.6 $\pm$ 0.3		5.1 $\pm$ 0.9		17.8 $\pm$ 2.2

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LOT**B1126****2027-02-05**

Instrument	Parameter		Low		Normal		High	
			LOT	B1126L	LOT	B1126N	LOT	B1126H
BC-2800, BC-2600 (Software version 2.0 or higher)	WBC	$\times 10^3/\mu\text{L}$		2.0 $\pm$ 0.5		8.0 $\pm$ 1.0		21.3 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.28 $\pm$ 0.20		4.62 $\pm$ 0.28		5.86 $\pm$ 0.35
	HGB	g/dL		6.1 $\pm$ 0.5		13.9 $\pm$ 0.8		19.1 $\pm$ 1.0
	HCT	%		17.6 $\pm$ 2.0		39.9 $\pm$ 3.0		55.1 $\pm$ 4.0
	MCV	fL		77.2 $\pm$ 5.0		86.3 $\pm$ 5.0		94.0 $\pm$ 5.0
	MCH	pg		26.8 $\pm$ 2.5		30.1 $\pm$ 2.5		32.6 $\pm$ 2.5
	MCHC	g/dL		34.7 $\pm$ 3.0		34.9 $\pm$ 3.0		34.7 $\pm$ 3.0
	RDW-CV	%		16.3 $\pm$ 3.0		14.5 $\pm$ 3.0		14.1 $\pm$ 3.0
	RDW-SD	fL		42.2 $\pm$ 10.0		41.6 $\pm$ 10.0		44.7 $\pm$ 10.0
	PLT	$\times 10^3/\mu\text{L}$		67 $\pm$ 30		246 $\pm$ 55		503 $\pm$ 70
	MPV	fL		9.6 $\pm$ 3.0		9.3 $\pm$ 3.0		9.1 $\pm$ 3.0
	PCT*	%		0.064 $\pm$ 0.050		0.229 $\pm$ 0.100		0.458 $\pm$ 0.200
	PDW*	/		14.9 $\pm$ 3.0		14.8 $\pm$ 3.0		14.7 $\pm$ 3.0
	Lymph%	%		58.0 $\pm$ 12.0		29.4 $\pm$ 9.0		13.8 $\pm$ 8.0
	Mid%	%		10.9 $\pm$ 10.9		8.3 $\pm$ 8.3		4.7 $\pm$ 4.7
	Gran%	%		31.1 $\pm$ 12.0		62.3 $\pm$ 10.0		81.5 $\pm$ 10.0
	Lymph#	$\times 10^3/\mu\text{L}$		1.2 $\pm$ 0.3		2.4 $\pm$ 0.8		2.9 $\pm$ 1.8
	Mid#	$\times 10^3/\mu\text{L}$		0.2 $\pm$ 0.2		0.7 $\pm$ 0.7		1.0 $\pm$ 1.0
	Gran#	$\times 10^3/\mu\text{L}$		0.6 $\pm$ 0.3		4.9 $\pm$ 0.9		17.4 $\pm$ 2.2
BC-2300, BC-2100	WBC	$\times 10^3/\mu\text{L}$		2.1 $\pm$ 0.5		8.0 $\pm$ 1.0		21.8 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.30 $\pm$ 0.20		4.58 $\pm$ 0.28		5.72 $\pm$ 0.35
	HGB	g/dL		6.2 $\pm$ 0.5		13.6 $\pm$ 0.8		18.5 $\pm$ 1.0
	HCT	%		17.7 $\pm$ 2.0		39.4 $\pm$ 3.0		53.9 $\pm$ 4.0
	MCV	fL		76.9 $\pm$ 5.0		86.0 $\pm$ 5.0		94.2 $\pm$ 5.0
	MCH	pg		27.0 $\pm$ 2.5		29.7 $\pm$ 2.5		32.3 $\pm$ 2.5
	MCHC	g/dL		35.1 $\pm$ 3.0		34.5 $\pm$ 3.0		34.3 $\pm$ 3.0
	RDW-CV	%		15.0 $\pm$ 3.0		13.5 $\pm$ 3.0		13.3 $\pm$ 3.0
	RDW-SD	fL		37.3 $\pm$ 10.0		37.6 $\pm$ 10.0		40.4 $\pm$ 10.0
	PLT	$\times 10^3/\mu\text{L}$		66 $\pm$ 30		248 $\pm$ 55		563 $\pm$ 70
	MPV	fL		10.0 $\pm$ 3.0		9.9 $\pm$ 3.0		9.6 $\pm$ 3.0
	PCT*	%		0.066 $\pm$ 0.050		0.246 $\pm$ 0.100		0.540 $\pm$ 0.200
	PDW*	/		15.2 $\pm$ 3.0		14.9 $\pm$ 3.0		14.9 $\pm$ 3.0
	Lymph%	%		57.3 $\pm$ 12.0		29.4 $\pm$ 9.0		14.0 $\pm$ 8.0
	Mid%	%		11.3 $\pm$ 11.3		10.2 $\pm$ 10.0		9.9 $\pm$ 8.0
	Gran%	%		31.4 $\pm$ 12.0		60.4 $\pm$ 10.0		76.1 $\pm$ 10.0
	Lymph#	$\times 10^3/\mu\text{L}$		1.2 $\pm$ 0.3		2.4 $\pm$ 0.8		3.1 $\pm$ 1.8
	Mid#	$\times 10^3/\mu\text{L}$		0.2 $\pm$ 0.2		0.8 $\pm$ 0.8		2.2 $\pm$ 1.8
	Gran#	$\times 10^3/\mu\text{L}$		0.7 $\pm$ 0.3		4.8 $\pm$ 0.9		16.5 $\pm$ 2.2

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Instrument	Parameter		Low		Normal		High	
			LOT	B1126L	LOT	B1126N	LOT	B1126H
BC-20s, BC-21s, BC-30 BC-30s, BC-30e, BC-31 BC-31s	WBC	$\times 10^3/\mu\text{L}$		2.1 $\pm$ 0.5		7.9 $\pm$ 1.0		22.0 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.24 $\pm$ 0.20		4.55 $\pm$ 0.28		5.78 $\pm$ 0.35
	HGB	g/dL		6.2 $\pm$ 0.5		13.9 $\pm$ 0.8		18.9 $\pm$ 1.0
	HCT	%		18.2 $\pm$ 2.0		40.2 $\pm$ 3.0		55.0 $\pm$ 4.0
	MCV	fL		81.4 $\pm$ 5.0		88.4 $\pm$ 5.0		95.1 $\pm$ 5.0
	MCH	pg		27.7 $\pm$ 2.5		30.5 $\pm$ 2.5		32.7 $\pm$ 2.5
	MCHC	g/dL		34.0 $\pm$ 3.0		34.6 $\pm$ 3.0		34.4 $\pm$ 3.0
	RDW-CV	%		17.2 $\pm$ 3.0		15.1 $\pm$ 3.0		14.7 $\pm$ 3.0
	RDW-SD	fL		49.3 $\pm$ 10.0		46.8 $\pm$ 10.0		49.4 $\pm$ 10.0
	PLT	$\times 10^3/\mu\text{L}$		64 $\pm$ 30		254 $\pm$ 55		577 $\pm$ 70
	MPV	fL		8.8 $\pm$ 3.0		8.6 $\pm$ 3.0		8.3 $\pm$ 3.0
	PCT*	%		0.056 $\pm$ 0.050		0.218 $\pm$ 0.100		0.479 $\pm$ 0.200
	PDW*	/		15.8 $\pm$ 3.0		16.1 $\pm$ 3.0		16.6 $\pm$ 3.0
	P-LCC	$\times 10^9/\text{L}$		14 $\pm$ 14		49 $\pm$ 25		107 $\pm$ 35
	P-LCR	%		21.4 $\pm$ 10.0		19.3 $\pm$ 10.0		18.5 $\pm$ 10.0
	Lymph%	%		62.4 $\pm$ 12.0		31.5 $\pm$ 9.0		13.5 $\pm$ 8.0
	Mid%	%		7.7 $\pm$ 7.7		7.3 $\pm$ 7.3		6.0 $\pm$ 6.0
	Gran%	%		29.9 $\pm$ 12.0		61.2 $\pm$ 10.0		80.5 $\pm$ 10.0
	Lymph#	$\times 10^3/\mu\text{L}$		1.3 $\pm$ 0.3		2.5 $\pm$ 0.8		3.0 $\pm$ 1.8
	Mid#	$\times 10^3/\mu\text{L}$		0.2 $\pm$ 0.2		0.6 $\pm$ 0.6		1.3 $\pm$ 1.3
	Gran#	$\times 10^3/\mu\text{L}$		0.6 $\pm$ 0.3		4.8 $\pm$ 0.9		17.7 $\pm$ 2.2
BC-10, BC-10e, BC-11 BC-20, BC-21	WBC	$\times 10^3/\mu\text{L}$		2.0 $\pm$ 0.5		7.7 $\pm$ 1.0		20.9 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.20 $\pm$ 0.20		4.51 $\pm$ 0.28		5.72 $\pm$ 0.35
	HGB	g/dL		6.2 $\pm$ 0.5		13.8 $\pm$ 0.8		18.9 $\pm$ 1.0
	HCT	%		17.6 $\pm$ 2.0		39.3 $\pm$ 3.0		53.3 $\pm$ 4.0
	MCV	fL		79.9 $\pm$ 5.0		87.1 $\pm$ 5.0		93.1 $\pm$ 5.0
	MCH	pg		28.2 $\pm$ 2.5		30.6 $\pm$ 2.5		33.0 $\pm$ 2.5
	MCHC	g/dL		35.3 $\pm$ 3.0		35.1 $\pm$ 3.0		35.5 $\pm$ 3.0
	RDW-CV	%		17.3 $\pm$ 3.0		15.7 $\pm$ 3.0		15.1 $\pm$ 3.0
	RDW-SD	fL		45.7 $\pm$ 10.0		46.3 $\pm$ 10.0		47.4 $\pm$ 10.0
	PLT	$\times 10^3/\mu\text{L}$		60 $\pm$ 30		238 $\pm$ 55		498 $\pm$ 70
	MPV	fL		9.3 $\pm$ 3.0		8.9 $\pm$ 3.0		8.7 $\pm$ 3.0
	PCT*	%		0.056 $\pm$ 0.050		0.212 $\pm$ 0.100		0.433 $\pm$ 0.200
	PDW*	/		15.3 $\pm$ 3.0		15.6 $\pm$ 3.0		15.9 $\pm$ 3.0
	P-LCR	%		24.2 $\pm$ 10.0		21.8 $\pm$ 10.0		21.3 $\pm$ 10.0
	Lymph%	%		62.8 $\pm$ 12.0		31.4 $\pm$ 9.0		14.2 $\pm$ 8.0
	Mid%	%		7.4 $\pm$ 7.4		7.3 $\pm$ 7.3		5.4 $\pm$ 5.4
	Gran%	%		29.8 $\pm$ 12.0		61.3 $\pm$ 10.0		80.4 $\pm$ 10.0
	Lymph#	$\times 10^3/\mu\text{L}$		1.3 $\pm$ 0.3		2.4 $\pm$ 0.8		3.0 $\pm$ 1.8
	Mid#	$\times 10^3/\mu\text{L}$		0.1 $\pm$ 0.1		0.6 $\pm$ 0.6		1.1 $\pm$ 1.1
	Gran#	$\times 10^3/\mu\text{L}$		0.6 $\pm$ 0.3		4.7 $\pm$ 0.9		16.8 $\pm$ 2.2
BC-2800Vet, BC-2600Vet (Software version 2.0 or higher)	WBC	$\times 10^3/\mu\text{L}$		2.0 $\pm$ 0.5		8.0 $\pm$ 1.0		21.3 $\pm$ 2.5
	RBC	$\times 10^6/\mu\text{L}$		2.28 $\pm$ 0.20		4.62 $\pm$ 0.28		5.86 $\pm$ 0.35
	HGB	g/dL		6.1 $\pm$ 0.5		13.9 $\pm$ 0.8		19.1 $\pm$ 1.0
	HCT	%		17.6 $\pm$ 2.0		39.9 $\pm$ 3.0		55.1 $\pm$ 4.0
	MCV	fL		77.2 $\pm$ 5.0		86.3 $\pm$ 5.0		94.0 $\pm$ 5.0
	MCH	pg		26.8 $\pm$ 2.5		30.1 $\pm$ 2.5		32.6 $\pm$ 2.5
	MCHC	g/dL		34.7 $\pm$ 3.0		34.9 $\pm$ 3.0		34.7 $\pm$ 3.0
	PLT	$\times 10^3/\mu\text{L}$		67 $\pm$ 30		246 $\pm$ 55		503 $\pm$ 70

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