


# BC-6D

## HEMATOLOGY CONTROLS

**CONTROL**

ASSAY VALUES AND EXPECTED RANGES

LOT

**MB1124A**  
 **2025-01-10**

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Instrument	Parameter	Low		Normal		High	
		LOT	MB1124AL	LOT	MB1124AN	LOT	MB1124AH
<b>BC-6800, BC-6600</b> <b>QC Mode</b>	WBC	x 10 <sup>9</sup> /L	4.00 ± 0.50		7.22 ± 1.00		19.77 ± 2.50
	Neu#	x 10 <sup>9</sup> /L	2.14 ± 0.40		3.47 ± 0.73		10.85 ± 1.98
	Lym#	x 10 <sup>9</sup> /L	1.11 ± 0.32		2.69 ± 0.58		6.41 ± 1.59
	Mon#	x 10 <sup>9</sup> /L	0.16 ± 0.16		0.37 ± 0.37		0.89 ± 0.89
	Eos#	x 10 <sup>9</sup> /L	0.55 ± 0.37		0.61 ± 0.47		1.40 ± 1.40
	Bas#	x 10 <sup>9</sup> /L	0.04 ± 0.19		0.08 ± 0.37		0.22 ± 1.00
	Neu%	%	53.5 ± 10.0		48.0 ± 10.0		54.9 ± 10.0
	Lym%	%	27.8 ± 8.0		37.3 ± 8.0		32.4 ± 8.0
	Mon%	%	3.9 ± 3.9		5.1 ± 5.1		4.5 ± 4.5
	Eos%	%	13.7 ± 9.0		8.5 ± 6.5		7.1 ± 7.1
	Bas%	%	1.1 ± 5.0		1.1 ± 5.0		1.1 ± 5.0
	RBC	x 10 <sup>12</sup> /L	2.31 ± 0.18		4.18 ± 0.24		5.01 ± 0.30
	HGB	g/dL	5.8 ± 0.4		12.1 ± 0.6		15.5 ± 0.8
	HCT	%	19.1 ± 1.5		38.7 ± 2.0		49.5 ± 2.4
	MCV	fL	82.5 ± 5.0		92.6 ± 5.0		98.8 ± 5.0
	MCH	pg	25.1 ± 2.5		28.9 ± 2.5		30.9 ± 2.5
	MCHC	g/dL	30.4 ± 3.0		31.3 ± 3.0		31.3 ± 3.0
	RDW-CV	%	17.1 ± 3.0		15.0 ± 3.0		14.7 ± 3.0
	RDW-SD	fL	49.6 ± 6.0		49.6 ± 6.0		51.4 ± 8.0
	PLT	x 10 <sup>9</sup> /L	52 ± 20		193 ± 40		384 ± 60
	MPV	fL	10.7 ± 3.0		9.9 ± 3.0		11.0 ± 3.0
	PDW		16.2 ± 3.0		16.6 ± 3.0		16.7 ± 3.0
	PCT	%	0.056 ± 0.050		0.191 ± 0.100		0.422 ± 0.200
	P-LCR	%	33.2 ± 20.0		25.8 ± 10.0		34.5 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	17 ± 12		50 ± 24		132 ± 50
	IMG# *	x 10 <sup>9</sup> /L	0.05 ± 0.39		0.09 ± 0.70		0.26 ± 2.00
	IMG% *	%	1.3 ± 10.0		1.3 ± 10.0		1.3 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.333 ± 0.333		0.344 ± 0.344		0.504 ± 0.504
	NRBC%	/100 WBC	8.32 ± 8.32		4.76 ± 4.76		2.55 ± 2.55

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\* Software version 1.09 or higher


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Instrument	Parameter	Low		Normal		High	
		LOT	MB1124AL	LOT	MB1124AN	LOT	MB1124AH
BC-6800Plus	WBC $\times 10^9/L$		4.13 $\pm$ 0.50		7.39 $\pm$ 1.00		20.39 $\pm$ 2.50
BC-6700Plus	Neu# $\times 10^9/L$		2.22 $\pm$ 0.42		3.58 $\pm$ 0.74		11.14 $\pm$ 2.04
BC-6600Plus	Lym# $\times 10^9/L$		1.14 $\pm$ 0.33		2.72 $\pm$ 0.60		6.63 $\pm$ 1.64
QC Mode	Mon# $\times 10^9/L$		0.16 $\pm$ 0.16		0.38 $\pm$ 0.38		0.92 $\pm$ 0.92
	Eos# $\times 10^9/L$		0.55 $\pm$ 0.38		0.61 $\pm$ 0.52		1.41 $\pm$ 1.41
	Bas# $\times 10^9/L$		0.06 $\pm$ 0.06		0.10 $\pm$ 0.10		0.29 $\pm$ 0.29
	Neu% %		53.7 $\pm$ 10.0		48.4 $\pm$ 10.0		54.7 $\pm$ 10.0
	Lym% %		27.6 $\pm$ 8.0		36.8 $\pm$ 8.0		32.5 $\pm$ 8.0
	Mon% %		3.9 $\pm$ 3.9		5.1 $\pm$ 5.1		4.5 $\pm$ 4.5
	Eos% %		13.3 $\pm$ 9.0		8.3 $\pm$ 7.0		6.9 $\pm$ 6.9
	Bas% %		1.5 $\pm$ 1.5		1.4 $\pm$ 1.4		1.4 $\pm$ 1.4
	RBC $\times 10^{12}/L$		2.31 $\pm$ 0.18		4.23 $\pm$ 0.24		5.05 $\pm$ 0.30
	HGB g/dL		5.8 $\pm$ 0.4		12.0 $\pm$ 0.6		15.5 $\pm$ 0.8
	HCT %		19.0 $\pm$ 1.5		39.3 $\pm$ 2.0		50.4 $\pm$ 2.4
	MCV fL		82.2 $\pm$ 5.0		93.0 $\pm$ 5.0		99.8 $\pm$ 5.0
	MCH pg		25.1 $\pm$ 2.5		28.4 $\pm$ 2.5		30.7 $\pm$ 2.5
	MCHC g/dL		30.5 $\pm$ 3.0		30.5 $\pm$ 3.0		30.8 $\pm$ 3.0
	RDW-CV %		17.0 $\pm$ 3.0		14.9 $\pm$ 3.0		14.4 $\pm$ 3.0
	RDW-SD fL		49.1 $\pm$ 6.0		48.6 $\pm$ 6.0		50.4 $\pm$ 8.0
	PLT $\times 10^9/L$		53 $\pm$ 20		198 $\pm$ 40		391 $\pm$ 60
	MPV fL		10.6 $\pm$ 3.0		10.0 $\pm$ 3.0		11.1 $\pm$ 3.0
	PDW		15.9 $\pm$ 3.0		16.6 $\pm$ 3.0		16.6 $\pm$ 3.0
	PCT %		0.056 $\pm$ 0.050		0.198 $\pm$ 0.100		0.434 $\pm$ 0.200
	P-LCR %		32.2 $\pm$ 20.0		26.3 $\pm$ 10.0		34.3 $\pm$ 10.0
	P-LCC $\times 10^9/L$		17 $\pm$ 12		52 $\pm$ 24		134 $\pm$ 50
	IMG# $\times 10^9/L$		0.05 $\pm$ 0.39		0.09 $\pm$ 0.75		0.24 $\pm$ 2.00
	IMG% %		1.3 $\pm$ 10.0		1.2 $\pm$ 10.0		1.2 $\pm$ 10.0
	NRBC# $\times 10^9/L$		0.294 $\pm$ 0.294		0.310 $\pm$ 0.310		0.457 $\pm$ 0.457
	NRBC% /100 WBC		7.13 $\pm$ 7.13		4.19 $\pm$ 4.19		2.24 $\pm$ 2.24

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		LOT	MB1124AL	LOT	MB1124AN	LOT	MB1124AH
BC-6200	WBC	x 10 <sup>9</sup> /L	3.92 ± 0.50		7.31 ± 1.00		20.22 ± 2.50
BC-6100Plus, BC-6100	Neu#	x 10 <sup>9</sup> /L	2.09 ± 0.40		3.47 ± 0.74		11.07 ± 2.03
BC-6000Plus, BC-6000	Lym#	x 10 <sup>9</sup> /L	1.09 ± 0.32		2.74 ± 0.59		6.61 ± 1.62
QC Mode	Mon#	x 10 <sup>9</sup> /L	0.15 ± 0.15		0.37 ± 0.37		0.91 ± 0.91
	Eos#	x 10 <sup>9</sup> /L	0.53 ± 0.26		0.62 ± 0.52		1.33 ± 1.21
	Bas#	x 10 <sup>9</sup> /L	0.06 ± 0.06		0.11 ± 0.11		0.30 ± 0.30
	Neu%	%	53.4 ± 10.0		47.4 ± 10.0		54.7 ± 10.0
	Lym%	%	27.8 ± 8.0		37.5 ± 8.0		32.7 ± 8.0
	Mon%	%	3.9 ± 3.9		5.1 ± 5.1		4.5 ± 4.5
	Eos%	%	13.4 ± 6.5		8.5 ± 7.0		6.6 ± 6.0
	Bas%	%	1.5 ± 1.5		1.5 ± 1.5		1.5 ± 1.5
	RBC	x 10 <sup>12</sup> /L	2.32 ± 0.18		4.22 ± 0.24		5.10 ± 0.30
	HGB	g/dL	5.9 ± 0.4		12.2 ± 0.6		15.7 ± 0.8
	HCT	%	19.6 ± 1.5		39.6 ± 2.0		50.5 ± 2.4
	MCV	fL	84.6 ± 5.0		93.9 ± 5.0		99.1 ± 5.0
	MCH	pg	25.4 ± 2.5		28.9 ± 2.5		30.8 ± 2.5
	MCHC	g/dL	30.1 ± 3.0		30.8 ± 3.0		31.1 ± 3.0
	RDW-CV	%	17.5 ± 3.0		15.4 ± 3.0		15.3 ± 3.0
	RDW-SD	fL	52.6 ± 6.0		51.9 ± 6.0		52.2 ± 8.0
	PLT	x 10 <sup>9</sup> /L	55 ± 20		202 ± 40		399 ± 60
	MPV	fL	11.6 ± 3.0		10.1 ± 3.0		11.1 ± 3.0
	PDW		16.4 ± 3.0		16.5 ± 3.0		16.6 ± 3.0
	PCT	%	0.064 ± 0.050		0.204 ± 0.100		0.443 ± 0.200
	P-LCR	%	40.1 ± 20.0		28.4 ± 10.0		37.7 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	22 ± 12		57 ± 24		150 ± 50
	IMG#	x 10 <sup>9</sup> /L	0.05 ± 0.39		0.10 ± 0.77		0.26 ± 2.00
	IMG%	%	1.3 ± 10.0		1.3 ± 10.0		1.3 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.280 ± 0.280		0.309 ± 0.309		0.427 ± 0.427
	NRBC%	/100 WBC	7.15 ± 7.15		4.23 ± 4.23		2.11 ± 2.11

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Instrument	Parameter	Low		Normal		High	
		LOT	MB1124AL	LOT	MB1124AN	LOT	MB1124AH
BC-700[B], BC-700[R],	WBC	x 10 <sup>9</sup> /L	4.03 ± 0.50		7.63 ± 1.00		20.73 ± 2.50
BC-720[R], BC-760[B]	Neu#	x 10 <sup>9</sup> /L	2.25 ± 0.41		3.90 ± 0.77		11.80 ± 2.08
BC-760[R], BC-780[R],	Lym#	x 10 <sup>9</sup> /L	1.09 ± 0.33		2.73 ± 0.61		6.63 ± 1.66
BC-700[B] CS,	Mon#	x 10 <sup>9</sup> /L	0.15 ± 0.15		0.37 ± 0.37		0.93 ± 0.93
BC-760[B] CS,	Eos#	x 10 <sup>9</sup> /L	0.48 ± 0.48		0.52 ± 0.52		1.08 ± 1.08
BC-700[R] CS,	Bas#	x 10 <sup>9</sup> /L	0.06 ± 0.22		0.11 ± 0.40		0.29 ± 1.04
BC-760[R] CS	Neu%	%	55.9 ± 10.0		51.1 ± 10.0		56.9 ± 10.0
BP 200n *	Lym%	%	27.0 ± 8.0		35.8 ± 8.0		32.0 ± 8.0
BP 260n *	Mon%	%	3.8 ± 3.8		4.9 ± 4.9		4.5 ± 4.5
QC Mode	Eos%	%	11.9 ± 11.9		6.8 ± 6.8		5.2 ± 5.2
	Bas%	%	1.4 ± 5.0		1.4 ± 5.0		1.4 ± 5.0
	RBC	x 10 <sup>12</sup> /L	2.28 ± 0.18		4.20 ± 0.24		5.09 ± 0.30
	HGB	g/dL	5.7 ± 0.4		12.0 ± 0.6		15.6 ± 0.8
	HCT	%	19.1 ± 1.5		39.7 ± 2.0		51.5 ± 2.4
	MCV	fL	83.7 ± 5.0		94.6 ± 5.0		101.2 ± 5.0
	MCH	pg	25.0 ± 2.5		28.6 ± 2.5		30.6 ± 2.5
	MCHC	g/dL	29.9 ± 3.0		30.2 ± 3.0		30.3 ± 3.0
	RDW-CV	%	18.2 ± 3.0		15.1 ± 3.0		14.3 ± 3.0
	RDW-SD	fL	55.3 ± 6.0		52.2 ± 6.0		52.5 ± 8.0
	PLT	x 10 <sup>9</sup> /L	56 ± 20		202 ± 40		393 ± 60
	MPV	fL	11.0 ± 3.0		10.2 ± 3.0		11.2 ± 3.0
	PDW		16.5 ± 3.0		16.8 ± 3.0		16.9 ± 3.0
	PCT	%	0.062 ± 0.050		0.206 ± 0.100		0.440 ± 0.200
	P-LCR	%	35.8 ± 20.0		27.4 ± 10.0		35.5 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	20 ± 12		55 ± 24		140 ± 50
	IMG#	x 10 <sup>9</sup> /L	0.05 ± 0.39		0.10 ± 0.77		0.25 ± 2.09
	IMG%	%	1.3 ± 10.0		1.3 ± 10.0		1.2 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.086 ± 0.086		0.147 ± 0.147		0.460 ± 0.460
	NRBC%	/100 WBC	2.13 ± 2.13		1.93 ± 1.93		2.22 ± 2.22
	IPF **	%	2.5 ± 5.0		2.4 ± 5.0		2.5 ± 5.0
	PLT-H	x 10 <sup>9</sup> /L	57 ± 20		204 ± 40		398 ± 60
	ESR	mm/h	38.27 ± 10.00		15.17 ± 4.00	NA	NA

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\*\* IPF : Only applies to BC-700[B], BC-760[B], BC-700[B] CS, BC-760[B] CS

\* Only ESR is involved in BP 200n and BP 260n


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Instrument	Parameter	Low		Normal		High	
		LOT	MB1124AL	LOT	MB1124AN	LOT	MB1124AH
BC-7500[B] CRP, BC-7500[R] CRP, BC-7500[N] CRP, BC-7500[NR] CRP QC Mode	WBC	x 10 <sup>9</sup> /L	3.88 ± 0.50		7.24 ± 1.00		20.14 ± 2.50
	Neu#	x 10 <sup>9</sup> /L	2.09 ± 0.39		3.51 ± 0.73		11.03 ± 2.02
	Lym#	x 10 <sup>9</sup> /L	1.06 ± 0.32		2.65 ± 0.58		6.53 ± 1.62
	Mon#	x 10 <sup>9</sup> /L	0.15 ± 0.15		0.36 ± 0.36		0.91 ± 0.91
	Eos#	x 10 <sup>9</sup> /L	0.52 ± 0.35		0.62 ± 0.62		1.39 ± 1.39
	Bas#	x 10 <sup>9</sup> /L	0.06 ± 0.06		0.10 ± 0.10		0.28 ± 0.28
	Neu%	%	54.0 ± 10.0		48.4 ± 10.0		54.8 ± 10.0
	Lym%	%	27.3 ± 8.0		36.6 ± 8.0		32.4 ± 8.0
	Mon%	%	3.8 ± 3.8		5.0 ± 5.0		4.5 ± 4.5
	Eos%	%	13.4 ± 9.0		8.6 ± 8.6		6.9 ± 6.9
	Bas%	%	1.5 ± 1.5		1.4 ± 1.4		1.4 ± 1.4
	RBC	x 10 <sup>12</sup> /L	2.26 ± 0.18		4.18 ± 0.24		5.11 ± 0.30
	HGB	g/dL	5.7 ± 0.4		12.1 ± 0.6		15.7 ± 0.8
	HCT	%	18.6 ± 1.5		39.0 ± 2.0		51.2 ± 2.4
	MCV	fL	82.4 ± 5.0		93.3 ± 5.0		100.2 ± 5.0
	MCH	pg	25.2 ± 2.5		28.9 ± 2.5		30.7 ± 2.5
	MCHC	g/dL	30.6 ± 3.0		31.0 ± 3.0		30.7 ± 3.0
	RDW-CV	%	18.2 ± 3.0		15.0 ± 3.0		14.2 ± 3.0
	RDW-SD	fL	54.7 ± 6.0		51.3 ± 6.0		51.8 ± 8.0
	PLT	x 10 <sup>9</sup> /L	53 ± 20		195 ± 40		383 ± 60
	MPV	fL	10.7 ± 3.0		10.3 ± 3.0		11.2 ± 3.0
	PDW		16.5 ± 3.0		16.9 ± 3.0		16.8 ± 3.0
	PCT	%	0.057 ± 0.050		0.201 ± 0.100		0.429 ± 0.200
	P-LCR	%	34.0 ± 20.0		27.9 ± 10.0		36.0 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	18 ± 12		54 ± 24		138 ± 50
	IMG#	x 10 <sup>9</sup> /L	0.05 ± 0.42		0.09 ± 0.70		0.26 ± 2.00
	IMG%	%	1.2 ± 10.0		1.3 ± 10.0		1.3 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.275 ± 0.275		0.305 ± 0.305		0.461 ± 0.461
	NRBC%	/100 WBC	7.09 ± 7.09		4.21 ± 4.21		2.29 ± 2.29

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