

# BC-6D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT MB0524A



2024-07-10

Instrument	Parameter	Low		Normal		High	
		LOT	MB0524AL	LOT	MB0524AN	LOT	MB0524AH
BC-6800,BC-6600	WBC $\times 10^9/L$		3.64 $\pm$ 0.50		7.29 $\pm$ 1.00		19.88 $\pm$ 2.50
QC Mode	Neu# $\times 10^9/L$		2.10 $\pm$ 0.37		3.55 $\pm$ 0.73		10.50 $\pm$ 1.99
	Lym# $\times 10^9/L$		0.89 $\pm$ 0.30		2.66 $\pm$ 0.59		6.40 $\pm$ 1.59
	Mon# $\times 10^9/L$		0.12 $\pm$ 0.12		0.39 $\pm$ 0.39		1.01 $\pm$ 1.01
	Eos# $\times 10^9/L$		0.48 $\pm$ 0.33		0.60 $\pm$ 0.48		1.71 $\pm$ 1.71
	Bas# $\times 10^9/L$		0.05 $\pm$ 0.20		0.09 $\pm$ 0.35		0.26 $\pm$ 1.00
	Neu%		57.8 $\pm$ 10.0		48.7 $\pm$ 10.0		52.8 $\pm$ 10.0
	Lym%		24.4 $\pm$ 8.0		36.5 $\pm$ 8.0		32.2 $\pm$ 8.0
	Mon%		3.2 $\pm$ 3.2		5.3 $\pm$ 5.3		5.1 $\pm$ 5.1
	Eos%		13.3 $\pm$ 9.0		8.2 $\pm$ 6.5		8.6 $\pm$ 8.6
	Bas%		1.3 $\pm$ 5.0		1.3 $\pm$ 5.0		1.3 $\pm$ 5.0
	RBC $\times 10^{12}/L$		2.33 $\pm$ 0.18		4.37 $\pm$ 0.24		5.00 $\pm$ 0.30
	HGB g/dL		6.0 $\pm$ 0.4		12.6 $\pm$ 0.6		15.5 $\pm$ 0.8
	HCT %		19.5 $\pm$ 1.5		40.2 $\pm$ 2.0		49.9 $\pm$ 2.4
	MCV fL		83.8 $\pm$ 5.0		91.9 $\pm$ 5.0		99.7 $\pm$ 5.0
	MCH pg		25.8 $\pm$ 2.5		28.8 $\pm$ 2.5		31.0 $\pm$ 2.5
	MCHC g/dL		30.7 $\pm$ 3.0		31.4 $\pm$ 3.0		31.1 $\pm$ 3.0
	RDW-CV %		16.5 $\pm$ 3.0		15.2 $\pm$ 3.0		14.9 $\pm$ 3.0
	RDW-SD fL		47.7 $\pm$ 6.0		49.8 $\pm$ 6.0		52.0 $\pm$ 8.0
	PLT $\times 10^9/L$		56 $\pm$ 20		196 $\pm$ 40		397 $\pm$ 60
	MPV fL		11.0 $\pm$ 3.0		10.4 $\pm$ 3.0		10.9 $\pm$ 3.0
	PDW		16.2 $\pm$ 3.0		16.4 $\pm$ 3.0		16.6 $\pm$ 3.0
	PCT %		0.062 $\pm$ 0.050		0.204 $\pm$ 0.100		0.433 $\pm$ 0.200
	P-LCR %		35.3 $\pm$ 10.0		29.7 $\pm$ 10.0		32.7 $\pm$ 10.0
	P-LCC $\times 10^9/L$		20 $\pm$ 8		58 $\pm$ 24		130 $\pm$ 50
	IMG#** $\times 10^9/L$		0.06 $\pm$ 0.38		0.09 $\pm$ 0.75		0.38 $\pm$ 2.00
	IMG%**		1.6 $\pm$ 10.0		1.2 $\pm$ 10.0		1.9 $\pm$ 10.0
	NRBC# $\times 10^9/L$		0.390 $\pm$ 0.390		0.353 $\pm$ 0.353		0.531 $\pm$ 0.531
	NRBC% /100WBC		10.72 $\pm$ 10.72		4.84 $\pm$ 4.84		2.67 $\pm$ 2.67

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

\*Research use only.

\*\*Software version 1.09 or higher.

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ASSAY VALUES AND EXPECTED RANGES

LOT MB0524A



2024-07-10

Instrument	Parameter	Low		Normal		High	
		LOT	MB0524AL	LOT	MB0524AN	LOT	MB0524AH
BC-6000	WBC $\times 10^9/L$		3.57 $\pm$ 0.50		7.52 $\pm$ 1.00		20.60 $\pm$ 2.50
BC-6100	Neu# $\times 10^9/L$		2.08 $\pm$ 0.36		3.65 $\pm$ 0.76		10.75 $\pm$ 2.06
BC-6200	Lym# $\times 10^9/L$		0.84 $\pm$ 0.29		2.79 $\pm$ 0.61		6.90 $\pm$ 1.65
BC-6000Plus	Mon# $\times 10^9/L$		0.12 $\pm$ 0.12		0.38 $\pm$ 0.38		0.95 $\pm$ 0.95
BC-6100Plus	Eos# $\times 10^9/L$		0.48 $\pm$ 0.24		0.59 $\pm$ 0.53		1.71 $\pm$ 1.71
QC Mode	Bas# $\times 10^9/L$		0.05 $\pm$ 0.05		0.11 $\pm$ 0.11		0.29 $\pm$ 0.29
	Neu%		58.4 $\pm$ 10.0		48.6 $\pm$ 10.0		52.2 $\pm$ 10.0
	Lym%		23.4 $\pm$ 8.0		37.1 $\pm$ 8.0		33.5 $\pm$ 8.0
	Mon%		3.3 $\pm$ 3.3		5.1 $\pm$ 5.1		4.6 $\pm$ 4.6
	Eos%		13.4 $\pm$ 6.5		7.8 $\pm$ 7.0		8.3 $\pm$ 8.3
	Bas%		1.5 $\pm$ 1.5		1.4 $\pm$ 1.4		1.4 $\pm$ 1.4
	RBC $\times 10^{12}/L$		2.36 $\pm$ 0.18		4.43 $\pm$ 0.24		5.07 $\pm$ 0.30
	HGB g/dL		6.0 $\pm$ 0.4		12.6 $\pm$ 0.6		15.7 $\pm$ 0.8
	HCT %		20.2 $\pm$ 1.5		41.3 $\pm$ 2.0		50.6 $\pm$ 2.4
	MCV fL		85.5 $\pm$ 5.0		93.2 $\pm$ 5.0		99.9 $\pm$ 5.0
	MCH pg		25.4 $\pm$ 2.5		28.4 $\pm$ 2.5		31.0 $\pm$ 2.5
	MCHC g/dL		29.7 $\pm$ 3.0		30.5 $\pm$ 3.0		31.0 $\pm$ 3.0
	RDW-CV %		16.8 $\pm$ 3.0		15.5 $\pm$ 3.0		14.6 $\pm$ 3.0
	RDW-SD fL		51.8 $\pm$ 6.0		52.7 $\pm$ 6.0		53.4 $\pm$ 8.0
	PLT $\times 10^9/L$		59 $\pm$ 20		212 $\pm$ 40		429 $\pm$ 60
	MPV fL		12.6 $\pm$ 3.0		11.2 $\pm$ 3.0		11.4 $\pm$ 3.0
	PDW		16.2 $\pm$ 3.0		16.4 $\pm$ 3.0		16.6 $\pm$ 3.0
	PCT %		0.074 $\pm$ 0.050		0.237 $\pm$ 0.100		0.489 $\pm$ 0.200
	P-LCR %		45.8 $\pm$ 10.0		35.0 $\pm$ 10.0		36.7 $\pm$ 10.0
	P-LCC $\times 10^9/L$		27 $\pm$ 8		74 $\pm$ 24		157 $\pm$ 50
	IMG# $\times 10^9/L$		0.04 $\pm$ 0.34		0.10 $\pm$ 0.77		0.27 $\pm$ 2.08
	IMG%		1.2 $\pm$ 10.0		1.3 $\pm$ 10.0		1.3 $\pm$ 10.0
	NRBC# $\times 10^9/L$		0.322 $\pm$ 0.322		0.307 $\pm$ 0.307		0.428 $\pm$ 0.428
	NRBC% /100WBC		9.03 $\pm$ 9.03		4.08 $\pm$ 4.08		2.08 $\pm$ 2.08
	Micro%		3.3 $\pm$ 15.0		2.5 $\pm$ 4.0		2.0 $\pm$ 2.5
	Macro%		4.5 $\pm$ 3.0		5.7 $\pm$ 5.0		7.4 $\pm$ 10.0
	Neu-X		396.6 $\pm$ 120.0		407.1 $\pm$ 120.0		408.5 $\pm$ 120.0
	Neu-Y		514.9 $\pm$ 120.0		515.3 $\pm$ 150.0		515.9 $\pm$ 150.0
	Mon-X		236.2 $\pm$ 120.0		219.0 $\pm$ 120.0		220.9 $\pm$ 120.0
	PLT-I $\times 10^9/L$		59 $\pm$ 30		212 $\pm$ 60		429 $\pm$ 90

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# BC-6D

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CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT MB0524A



2024-07-10

Instrument	Parameter	Low		Normal		High	
		LOT	MB0524AL	LOT	MB0524AN	LOT	MB0524AH
BC-6800Plus	WBC $\times 10^9/L$		3.82 $\pm$ 0.50		7.54 $\pm$ 1.00		20.99 $\pm$ 2.50
BC-6700Plus	Neu# $\times 10^9/L$		2.23 $\pm$ 0.39		3.71 $\pm$ 0.76		11.14 $\pm$ 2.11
BC-6600Plus	Lym# $\times 10^9/L$		0.91 $\pm$ 0.31		2.76 $\pm$ 0.61		6.88 $\pm$ 1.68
QC Mode	Mon# $\times 10^9/L$		0.13 $\pm$ 0.13		0.38 $\pm$ 0.38		0.94 $\pm$ 0.94
	Eos# $\times 10^9/L$		0.49 $\pm$ 0.35		0.58 $\pm$ 0.53		1.74 $\pm$ 1.74
	Bas# $\times 10^9/L$		0.06 $\pm$ 0.06		0.11 $\pm$ 0.11		0.29 $\pm$ 0.29
	Neu%		58.6 $\pm$ 10.0		49.2 $\pm$ 10.0		53.0 $\pm$ 10.0
	Lym%		23.8 $\pm$ 8.0		36.6 $\pm$ 8.0		32.8 $\pm$ 8.0
	Mon%		3.3 $\pm$ 3.3		5.1 $\pm$ 5.1		4.5 $\pm$ 4.5
	Eos%		12.8 $\pm$ 9.0		7.7 $\pm$ 7.0		8.3 $\pm$ 8.3
	Bas%		1.5 $\pm$ 1.5		1.4 $\pm$ 1.4		1.4 $\pm$ 1.4
	RBC $\times 10^{12}/L$		2.36 $\pm$ 0.18		4.43 $\pm$ 0.24		5.04 $\pm$ 0.30
	HGB g/dL		6.0 $\pm$ 0.4		12.5 $\pm$ 0.6		15.4 $\pm$ 0.8
	HCT %		19.5 $\pm$ 1.5		40.7 $\pm$ 2.0		50.4 $\pm$ 2.4
	MCV fL		82.7 $\pm$ 5.0		91.9 $\pm$ 5.0		100.0 $\pm$ 5.0
	MCH pg		25.4 $\pm$ 2.5		28.2 $\pm$ 2.5		30.6 $\pm$ 2.5
	MCHC g/dL		30.7 $\pm$ 3.0		30.7 $\pm$ 3.0		30.6 $\pm$ 3.0
	RDW-CV %		16.4 $\pm$ 3.0		15.3 $\pm$ 3.0		14.6 $\pm$ 3.0
	RDW-SD fL		46.8 $\pm$ 6.0		48.9 $\pm$ 6.0		50.3 $\pm$ 8.0
	PLT $\times 10^9/L$		55 $\pm$ 20		203 $\pm$ 40		407 $\pm$ 60
	PLT-H $\times 10^9/L$		56 $\pm$ 20		202 $\pm$ 40		406 $\pm$ 60
	MPV fL		10.9 $\pm$ 3.0		10.4 $\pm$ 3.0		11.0 $\pm$ 3.0
	PDW		15.8 $\pm$ 3.0		16.3 $\pm$ 3.0		16.6 $\pm$ 3.0
	PCT %		0.060 $\pm$ 0.050		0.211 $\pm$ 0.100		0.448 $\pm$ 0.200
	P-LCR %		35.6 $\pm$ 10.0		30.0 $\pm$ 10.0		33.3 $\pm$ 10.0
	P-LCC $\times 10^9/L$		20 $\pm$ 8		61 $\pm$ 24		136 $\pm$ 50
	IMG# $\times 10^9/L$		0.05 $\pm$ 0.42		0.09 $\pm$ 0.75		0.27 $\pm$ 2.08
	IMG%		1.2 $\pm$ 10.0		1.2 $\pm$ 10.0		1.3 $\pm$ 10.0
	NRBC# $\times 10^9/L$		0.310 $\pm$ 0.310		0.274 $\pm$ 0.274		0.443 $\pm$ 0.443
	NRBC% /100WBC		8.12 $\pm$ 8.12		3.63 $\pm$ 3.63		2.11 $\pm$ 2.11
	Micro%		3.7 $\pm$ 15.0		2.7 $\pm$ 4.0		2.2 $\pm$ 2.5
	Macro%		4.1 $\pm$ 3.0		4.5 $\pm$ 5.0		5.2 $\pm$ 10.0
	Neu-X		386.4 $\pm$ 120.0		380.6 $\pm$ 120.0		385.6 $\pm$ 120.0
	Neu-Y		506.0 $\pm$ 120.0		507.2 $\pm$ 150.0		509.5 $\pm$ 150.0
	Mon-X		237.4 $\pm$ 120.0		210.9 $\pm$ 120.0		215.0 $\pm$ 120.0
	PLT-I $\times 10^9/L$		55 $\pm$ 30		203 $\pm$ 60		407 $\pm$ 90

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# BC-6D

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CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT MB0524A



2024-07-10

Instrument	Parameter	Low		Normal		High	
		LOT	MB0524AL	LOT	MB0524AN	LOT	MB0524AH
BC-7500[B] CRP	WBC $\times 10^9/L$		3.61 $\pm$ 0.50		7.47 $\pm$ 1.00		20.41 $\pm$ 2.50
BC-7500[N] CRP	Neu# $\times 10^9/L$		2.10 $\pm$ 0.37		3.65 $\pm$ 0.75		10.75 $\pm$ 2.04
BC-7500[R] CRP	Lym# $\times 10^9/L$		0.86 $\pm$ 0.29		2.76 $\pm$ 0.60		6.78 $\pm$ 1.64
BC-7500[NR] CRP	Mon# $\times 10^9/L$		0.12 $\pm$ 0.12		0.38 $\pm$ 0.38		0.92 $\pm$ 0.92
BC-7300[B] CRP	Eos# $\times 10^9/L$		0.48 $\pm$ 0.33		0.58 $\pm$ 0.58		1.67 $\pm$ 1.67
BC-7300[N] CRP	Bas# $\times 10^9/L$		0.05 $\pm$ 0.05		0.10 $\pm$ 0.10		0.29 $\pm$ 0.29
BC-7300[R] CRP	Neu%		58.0 $\pm$ 10.0		48.9 $\pm$ 10.0		52.7 $\pm$ 10.0
BC-7300[NR] CRP	Lym%		23.8 $\pm$ 8.0		36.9 $\pm$ 8.0		33.2 $\pm$ 8.0
BC-7500[B] CS	Mon%		3.3 $\pm$ 3.3		5.1 $\pm$ 5.1		4.5 $\pm$ 4.5
BC-7500[N] CS	Eos%		13.4 $\pm$ 9.0		7.7 $\pm$ 7.7		8.2 $\pm$ 8.2
BC-7500[R] CS	Bas%		1.5 $\pm$ 1.5		1.4 $\pm$ 1.4		1.4 $\pm$ 1.4
BC-7500[NR] CS	RBC $\times 10^{12}/L$		2.29 $\pm$ 0.18		4.38 $\pm$ 0.24		5.05 $\pm$ 0.30
QC Mode	HGB g/dL		5.9 $\pm$ 0.4		12.6 $\pm$ 0.6		15.7 $\pm$ 0.8
	HCT %		19.0 $\pm$ 1.5		40.4 $\pm$ 2.0		50.7 $\pm$ 2.4
	MCV fL		83.1 $\pm$ 5.0		92.3 $\pm$ 5.0		100.4 $\pm$ 5.0
	MCH pg		25.8 $\pm$ 2.5		28.8 $\pm$ 2.5		31.1 $\pm$ 2.5
	MCHC g/dL		31.0 $\pm$ 3.0		31.2 $\pm$ 3.0		31.0 $\pm$ 3.0
	RDW-CV %		17.6 $\pm$ 3.0		15.4 $\pm$ 3.0		14.4 $\pm$ 3.0
	RDW-SD fL		51.7 $\pm$ 6.0		50.6 $\pm$ 6.0		51.1 $\pm$ 8.0
	PLT $\times 10^9/L$		57 $\pm$ 20		200 $\pm$ 40		404 $\pm$ 60
	MPV fL		11.0 $\pm$ 3.0		10.5 $\pm$ 3.0		11.0 $\pm$ 3.0
	PDW		16.3 $\pm$ 3.0		16.5 $\pm$ 3.0		16.8 $\pm$ 3.0
	PCT %		0.063 $\pm$ 0.050		0.210 $\pm$ 0.100		0.444 $\pm$ 0.200
	P-LCR %		36.8 $\pm$ 10.0		30.9 $\pm$ 10.0		33.8 $\pm$ 10.0
	P-LCC $\times 10^9/L$		21 $\pm$ 8		62 $\pm$ 24		137 $\pm$ 50
	IMG# $\times 10^9/L$		0.04 $\pm$ 0.34		0.10 $\pm$ 0.77		0.27 $\pm$ 2.08
	IMG%		1.2 $\pm$ 10.0		1.3 $\pm$ 10.0		1.3 $\pm$ 10.0
	NRBC# $\times 10^9/L$		0.320 $\pm$ 0.320		0.311 $\pm$ 0.311		0.408 $\pm$ 0.408
	NRBC% /100WBC		8.87 $\pm$ 8.87		4.17 $\pm$ 4.17		2.00 $\pm$ 2.00

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# BC-6D

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CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT MB0524A



2024-07-10

Instrument	Parameter	Low		Normal		High	
		LOT	MB0524AL	LOT	MB0524AN	LOT	MB0524AH
BC-700[B]	WBC $\times 10^9/L$		3.66 $\pm$ 0.50		7.67 $\pm$ 1.00		21.04 $\pm$ 2.50
BC-760[B]	Neu# $\times 10^9/L$		2.24 $\pm$ 0.37		3.90 $\pm$ 0.77		11.55 $\pm$ 2.11
BC-700[B] CS	Lym# $\times 10^9/L$		0.84 $\pm$ 0.30		2.81 $\pm$ 0.62		6.82 $\pm$ 1.69
BC-760[B] CS	Mon# $\times 10^9/L$		0.12 $\pm$ 0.12		0.39 $\pm$ 0.39		0.95 $\pm$ 0.95
BC-700[R]	Eos# $\times 10^9/L$		0.41 $\pm$ 0.33		0.46 $\pm$ 0.46		1.43 $\pm$ 1.43
BC-720[R]	Bas# $\times 10^9/L$		0.05 $\pm$ 0.18		0.11 $\pm$ 0.40		0.29 $\pm$ 1.04
BC-760[R]	Neu%		61.0 $\pm$ 10.0		50.9 $\pm$ 10.0		54.9 $\pm$ 10.0
BC-780[R]	Lym%		23.0 $\pm$ 8.0		36.6 $\pm$ 8.0		32.4 $\pm$ 8.0
BC-700[R] CS	Mon%		3.3 $\pm$ 3.3		5.1 $\pm$ 5.1		4.5 $\pm$ 4.5
BC-760[R] CS	Eos%		11.3 $\pm$ 9.0		6.0 $\pm$ 6.0		6.8 $\pm$ 6.8
BP 200n	Bas%		1.4 $\pm$ 5.0		1.4 $\pm$ 5.0		1.4 $\pm$ 5.0
BP 260n	RBC $\times 10^{12}/L$		2.33 $\pm$ 0.18		4.40 $\pm$ 0.24		5.06 $\pm$ 0.30
QC Mode	HGB g/dL		5.9 $\pm$ 0.4		12.5 $\pm$ 0.6		15.5 $\pm$ 0.8
	HCT %		19.7 $\pm$ 1.5		41.1 $\pm$ 2.0		51.4 $\pm$ 2.4
	MCV fL		84.4 $\pm$ 5.0		93.4 $\pm$ 5.0		101.6 $\pm$ 5.0
	MCH pg		25.3 $\pm$ 2.5		28.4 $\pm$ 2.5		30.6 $\pm$ 2.5
	MCHC g/dL		30.0 $\pm$ 3.0		30.4 $\pm$ 3.0		30.2 $\pm$ 3.0
	RDW-CV %		17.4 $\pm$ 3.0		15.5 $\pm$ 3.0		14.4 $\pm$ 3.0
	RDW-SD fL		51.1 $\pm$ 6.0		50.4 $\pm$ 6.0		50.8 $\pm$ 8.0
	PLT $\times 10^9/L$		59 $\pm$ 20		206 $\pm$ 40		416 $\pm$ 60
	PLT-H $\times 10^9/L$		60 $\pm$ 20		208 $\pm$ 40		422 $\pm$ 60
	MPV fL		11.1 $\pm$ 3.0		10.2 $\pm$ 3.0		10.8 $\pm$ 3.0
	PDW		16.2 $\pm$ 3.0		16.5 $\pm$ 3.0		16.9 $\pm$ 3.0
	PCT %		0.065 $\pm$ 0.050		0.210 $\pm$ 0.100		0.449 $\pm$ 0.200
	P-LCR %		36.6 $\pm$ 10.0		29.5 $\pm$ 10.0		32.7 $\pm$ 10.0
	P-LCC $\times 10^9/L$		22 $\pm$ 8		61 $\pm$ 24		136 $\pm$ 50
	IMG# $\times 10^9/L$		0.05 $\pm$ 0.39		0.10 $\pm$ 0.77		0.25 $\pm$ 2.09
	IMG%		1.3 $\pm$ 10.0		1.3 $\pm$ 10.0		1.2 $\pm$ 10.0
	NRBC# $\times 10^9/L$		0.088 $\pm$ 0.088		0.144 $\pm$ 0.144		0.448 $\pm$ 0.448
	NRBC% /100WBC		2.41 $\pm$ 2.41		1.88 $\pm$ 1.88		2.13 $\pm$ 2.13
	IPF %		2.5 $\pm$ 5.0		2.3 $\pm$ 5.0		2.5 $\pm$ 5.0
	ESR mm/h		38.12 $\pm$ 10.00		14.67 $\pm$ 4.00		/ $\pm$ /

The ESR is not applicable for High level, and only ESR is involved in BP 200n and BP 260n.

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