

# BC-6D


## HEMATOLOGY CONTROLS

**CONTROL**

Revised 2025-01-10

## ASSAY VALUES AND EXPECTED RANGES

LOT

**MB0125A**  
 **2025-03-10**

Instrument	Parameter	Low		Normal		High	
		LOT	MB0125AL	LOT	MB0125AN	LOT	MB0125AH
BC-6800, BC-6600 QC Mode	WBC	x 10 <sup>9</sup> /L	3.76 ± 0.50		7.39 ± 1.00		20.05 ± 2.50
	Neu#	x 10 <sup>9</sup> /L	1.93 ± 0.38		3.41 ± 0.74		10.65 ± 2.01
	Lym#	x 10 <sup>9</sup> /L	1.11 ± 0.30		2.79 ± 0.59		6.82 ± 1.61
	Mon#	x 10 <sup>9</sup> /L	0.16 ± 0.16		0.40 ± 0.40		0.98 ± 0.98
	Eos#	x 10 <sup>9</sup> /L	0.52 ± 0.34		0.71 ± 0.49		1.38 ± 1.38
	Bas#	x 10 <sup>9</sup> /L	0.04 ± 0.19		0.08 ± 0.37		0.22 ± 1.00
	Neu%	%	51.3 ± 10.0		46.1 ± 10.0		53.1 ± 10.0
	Lym%	%	29.6 ± 8.0		37.8 ± 8.0		34.0 ± 8.0
	Mon%	%	4.3 ± 4.3		5.4 ± 5.4		4.9 ± 4.9
	Eos%	%	13.7 ± 9.0		9.6 ± 6.5		6.9 ± 6.9
	Bas%	%	1.1 ± 5.0		1.1 ± 5.0		1.1 ± 5.0
	RBC	x 10 <sup>12</sup> /L	2.35 ± 0.18		4.20 ± 0.24		5.07 ± 0.30
	HGB	g/dL	6.0 ± 0.4		12.1 ± 0.6		15.7 ± 0.8
	HCT	%	19.4 ± 1.5		38.7 ± 2.0		50.7 ± 2.4
	MCV	fL	82.7 ± 5.0		92.2 ± 5.0		100.0 ± 5.0
	MCH	pg	25.5 ± 2.5		28.8 ± 2.5		31.0 ± 2.5
	MCHC	g/dL	30.9 ± 3.0		31.2 ± 3.0		31.0 ± 3.0
	RDW-CV	%	17.4 ± 3.0		15.4 ± 3.0		13.8 ± 3.0
	RDW-SD	fL	50.4 ± 6.0		49.9 ± 6.0		49.7 ± 8.0
	PLT	x 10 <sup>9</sup> /L	52 ± 20		201 ± 40		376 ± 60
	MPV	fL	10.1 ± 3.0		10.4 ± 3.0		10.3 ± 3.0
	PDW		16.2 ± 3.0		16.5 ± 3.0		16.5 ± 3.0
	PCT	%	0.053 ± 0.050		0.209 ± 0.100		0.387 ± 0.200
	P-LCR	%	28.8 ± 20.0		29.6 ± 10.0		28.4 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	15 ± 12		59 ± 24		107 ± 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	0.356 ± 0.356		0.339 ± 0.339		0.573 ± 0.573
	NRBC%	/100 WBC	9.48 ± 9.48		4.59 ± 4.59		2.86 ± 2.86

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

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\* Software version 1.09 or higher


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Instrument	Parameter	Low		Normal		High	
		LOT	MB0125AL	LOT	MB0125AN	LOT	MB0125AH
BC-6800Plus	WBC x 10 <sup>9</sup> /L		3.90 ± 0.50		7.58 ± 1.00		20.92 ± 2.50
BC-6700Plus	Neu# x 10 <sup>9</sup> /L		2.03 ± 0.39		3.51 ± 0.76		11.18 ± 2.10
BC-6600Plus	Lym# x 10 <sup>9</sup> /L		1.13 ± 0.32		2.83 ± 0.61		7.13 ± 1.68
QC Mode	Mon# x 10 <sup>9</sup> /L		0.16 ± 0.16		0.39 ± 0.39		0.96 ± 0.96
	Eos# x 10 <sup>9</sup> /L		0.52 ± 0.36		0.74 ± 0.53		1.36 ± 1.36
	Bas# x 10 <sup>9</sup> /L		0.06 ± 0.06		0.11 ± 0.11		0.29 ± 0.29
	Neu% %		52.0 ± 10.0		46.4 ± 10.0		53.4 ± 10.0
	Lym% %		29.1 ± 8.0		37.3 ± 8.0		34.1 ± 8.0
	Mon% %		4.1 ± 4.1		5.1 ± 5.1		4.6 ± 4.6
	Eos% %		13.3 ± 9.0		9.8 ± 7.0		6.5 ± 6.5
	Bas% %		1.5 ± 1.5		1.4 ± 1.4		1.4 ± 1.4
	RBC x 10 <sup>12</sup> /L		2.35 ± 0.18		4.25 ± 0.24		5.10 ± 0.30
	HGB g/dL		5.9 ± 0.4		12.0 ± 0.6		15.6 ± 0.8
	HCT %		19.3 ± 1.5		39.1 ± 2.0		50.9 ± 2.4
	MCV fL		82.2 ± 5.0		91.9 ± 5.0		99.9 ± 5.0
	MCH pg		25.1 ± 2.5		28.2 ± 2.5		30.6 ± 2.5
	MCHC g/dL		30.5 ± 3.0		30.7 ± 3.0		30.6 ± 3.0
	RDW-CV %		17.2 ± 3.0		15.2 ± 3.0		14.5 ± 3.0
	RDW-SD fL		50.2 ± 6.0		49.6 ± 6.0		51.3 ± 8.0
	PLT x 10 <sup>9</sup> /L		52 ± 20		205 ± 40		376 ± 60
	MPV fL		10.4 ± 3.0		10.5 ± 3.0		10.3 ± 3.0
	PDW		16.1 ± 3.0		16.4 ± 3.0		16.6 ± 3.0
	PCT %		0.054 ± 0.050		0.215 ± 0.100		0.387 ± 0.200
	P-LCR %		31.1 ± 20.0		29.8 ± 10.0		29.3 ± 10.0
	P-LCC x 10 <sup>9</sup> /L		16 ± 12		61 ± 24		110 ± 50
	IMG# x 10 <sup>9</sup> /L		0.05 ± 0.39		0.10 ± 0.77		0.27 ± 2.08
	IMG% %		1.3 ± 10.0		1.3 ± 10.0		1.3 ± 10.0
	NRBC# x 10 <sup>9</sup> /L		0.299 ± 0.299		0.274 ± 0.274		0.441 ± 0.441
	NRBC% /100 WBC		7.66 ± 7.66		3.61 ± 3.61		2.11 ± 2.11

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		LOT	MB0125AL	LOT	MB0125AN	LOT	MB0125AH
BC-6200	WBC	x 10 <sup>9</sup> /L	3.64 ± 0.50		7.37 ± 1.00		20.33 ± 2.50
BC-6100Plus, BC-6100	Neu#	x 10 <sup>9</sup> /L	1.89 ± 0.37		3.34 ± 0.74		10.66 ± 2.04
BC-6000Plus, BC-6000	Lym#	x 10 <sup>9</sup> /L	1.06 ± 0.30		2.81 ± 0.59		7.01 ± 1.63
QC Mode	Mon#	x 10 <sup>9</sup> /L	0.15 ± 0.15		0.40 ± 0.40		1.02 ± 1.02
	Eos#	x 10 <sup>9</sup> /L	0.49 ± 0.24		0.71 ± 0.52		1.34 ± 1.22
	Bas#	x 10 <sup>9</sup> /L	0.05 ± 0.05		0.11 ± 0.11		0.30 ± 0.30
	Neu%	%	51.8 ± 10.0		45.3 ± 10.0		52.4 ± 10.0
	Lym%	%	29.1 ± 8.0		38.1 ± 8.0		34.5 ± 8.0
	Mon%	%	4.1 ± 4.1		5.4 ± 5.4		5.0 ± 5.0
	Eos%	%	13.5 ± 6.5		9.7 ± 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	2.34 ± 0.18		4.20 ± 0.24		5.09 ± 0.30
	HGB	g/dL	6.0 ± 0.4		12.1 ± 0.6		15.8 ± 0.8
	HCT	%	19.9 ± 1.5		39.1 ± 2.0		51.2 ± 2.4
	MCV	fL	85.2 ± 5.0		93.0 ± 5.0		100.6 ± 5.0
	MCH	pg	25.6 ± 2.5		28.8 ± 2.5		31.0 ± 2.5
	MCHC	g/dL	30.1 ± 3.0		31.0 ± 3.0		30.9 ± 3.0
	RDW-CV	%	17.9 ± 3.0		15.2 ± 3.0		13.8 ± 3.0
	RDW-SD	fL	54.1 ± 6.0		52.1 ± 6.0		51.3 ± 8.0
	PLT	x 10 <sup>9</sup> /L	55 ± 20		213 ± 40		399 ± 60
	MPV	fL	11.5 ± 3.0		11.3 ± 3.0		10.6 ± 3.0
	PDW		16.4 ± 3.0		16.5 ± 3.0		16.5 ± 3.0
	PCT	%	0.063 ± 0.050		0.241 ± 0.100		0.423 ± 0.200
	P-LCR	%	36.4 ± 20.0		33.8 ± 10.0		29.8 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	20 ± 12		72 ± 24		119 ± 50
	IMG#	x 10 <sup>9</sup> /L	0.04 ± 0.34		0.10 ± 0.77		0.26 ± 2.00
	IMG%	%	1.2 ± 10.0		1.3 ± 10.0		1.3 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.269 ± 0.269		0.276 ± 0.276		0.419 ± 0.419
	NRBC%	/100 WBC	7.39 ± 7.39		3.75 ± 3.75		2.06 ± 2.06

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		LOT	MB0125AL	LOT	MB0125AN	LOT	MB0125AH
BC-700[B], BC-700[R],	WBC	x 10 <sup>9</sup> /L	3.79 ± 0.50		7.69 ± 1.00		21.23 ± 2.50
BC-720[R], BC-760[B]	Neu#	x 10 <sup>9</sup> /L	2.03 ± 0.38		3.73 ± 0.77		11.74 ± 2.13
BC-760[R], BC-780[R],	Lym#	x 10 <sup>9</sup> /L	1.10 ± 0.31		2.83 ± 0.62		7.13 ± 1.70
BC-700[B] CS,	Mon#	x 10 <sup>9</sup> /L	0.16 ± 0.16		0.39 ± 0.39		1.00 ± 1.00
BC-760[B] CS,	Eos#	x 10 <sup>9</sup> /L	0.45 ± 0.45		0.63 ± 0.63		1.06 ± 1.06
BC-700[R] CS,	Bas#	x 10 <sup>9</sup> /L	0.05 ± 0.18		0.11 ± 0.40		0.30 ± 1.08
BC-760[R] CS	Neu%	%	53.6 ± 10.0		48.5 ± 10.0		55.3 ± 10.0
BP 200n *	Lym%	%	28.9 ± 8.0		36.8 ± 8.0		33.6 ± 8.0
BP 260n *	Mon%	%	4.1 ± 4.1		5.1 ± 5.1		4.7 ± 4.7
QC Mode	Eos%	%	12.0 ± 12.0		8.2 ± 8.2		5.0 ± 5.0
	Bas%	%	1.4 ± 5.0		1.4 ± 5.0		1.4 ± 5.0
	RBC	x 10 <sup>12</sup> /L	2.31 ± 0.18		4.21 ± 0.24		5.13 ± 0.30
	HGB	g/dL	5.8 ± 0.4		12.0 ± 0.6		15.7 ± 0.8
	HCT	%	19.4 ± 1.5		39.4 ± 2.0		52.1 ± 2.4
	MCV	fL	83.9 ± 5.0		93.6 ± 5.0		101.5 ± 5.0
	MCH	pg	25.1 ± 2.5		28.5 ± 2.5		30.6 ± 2.5
	MCHC	g/dL	29.9 ± 3.0		30.5 ± 3.0		30.2 ± 3.0
	RDW-CV	%	18.3 ± 3.0		15.4 ± 3.0		14.3 ± 3.0
	RDW-SD	fL	56.1 ± 6.0		52.7 ± 6.0		52.9 ± 8.0
	PLT	x 10 <sup>9</sup> /L	53 ± 20		205 ± 40		374 ± 60
	MPV	fL	10.8 ± 3.0		10.7 ± 3.0		10.4 ± 3.0
	PDW		16.5 ± 3.0		16.7 ± 3.0		16.8 ± 3.0
	PCT	%	0.057 ± 0.050		0.219 ± 0.100		0.389 ± 0.200
	P-LCR	%	33.3 ± 20.0		31.5 ± 10.0		30.5 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	18 ± 12		65 ± 24		114 ± 50
	IMG#	x 10 <sup>9</sup> /L	0.05 ± 0.39		0.09 ± 0.75		0.28 ± 2.16
	IMG%	%	1.3 ± 10.0		1.2 ± 10.0		1.3 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.078 ± 0.078		0.142 ± 0.142		0.450 ± 0.450
	NRBC%	/100 WBC	2.05 ± 2.05		1.85 ± 1.85		2.12 ± 2.12
	IPF **	%	2.5 ± 5.0		2.5 ± 5.0		2.4 ± 5.0
	PLT-H	x 10 <sup>9</sup> /L	54 ± 20		208 ± 40		379 ± 60
	ESR	mm/h	38.46 ± 10.00		16.54 ± 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	MB0125AL	LOT	MB0125AN	LOT	MB0125AH
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	3.66 ± 0.50		7.44 ± 1.00		20.47 ± 2.50
	Neu#	x 10 <sup>9</sup> /L	1.90 ± 0.37		3.40 ± 0.75		10.85 ± 2.05
	Lym#	x 10 <sup>9</sup> /L	1.07 ± 0.30		2.84 ± 0.60		7.02 ± 1.64
	Mon#	x 10 <sup>9</sup> /L	0.15 ± 0.15		0.39 ± 0.39		0.96 ± 0.96
	Eos#	x 10 <sup>9</sup> /L	0.49 ± 0.33		0.71 ± 0.71		1.35 ± 1.35
	Bas#	x 10 <sup>9</sup> /L	0.05 ± 0.05		0.10 ± 0.10		0.29 ± 0.29
	Neu%	%	51.8 ± 10.0		45.6 ± 10.0		53.0 ± 10.0
	Lym%	%	29.3 ± 8.0		38.2 ± 8.0		34.3 ± 8.0
	Mon%	%	4.1 ± 4.1		5.2 ± 5.2		4.7 ± 4.7
	Eos%	%	13.4 ± 9.0		9.6 ± 9.6		6.6 ± 6.6
	Bas%	%	1.4 ± 1.4		1.4 ± 1.4		1.4 ± 1.4
	RBC	x 10 <sup>12</sup> /L	2.31 ± 0.18		4.21 ± 0.24		5.14 ± 0.30
	HGB	g/dL	5.9 ± 0.4		12.1 ± 0.6		15.9 ± 0.8
	HCT	%	19.1 ± 1.5		38.9 ± 2.0		51.7 ± 2.4
	MCV	fL	82.6 ± 5.0		92.5 ± 5.0		100.5 ± 5.0
	MCH	pg	25.5 ± 2.5		28.7 ± 2.5		30.9 ± 2.5
	MCHC	g/dL	30.9 ± 3.0		31.1 ± 3.0		30.8 ± 3.0
	RDW-CV	%	18.3 ± 3.0		15.3 ± 3.0		14.3 ± 3.0
	RDW-SD	fL	55.1 ± 6.0		51.8 ± 6.0		52.2 ± 8.0
	PLT	x 10 <sup>9</sup> /L	53 ± 20		201 ± 40		371 ± 60
	MPV	fL	10.6 ± 3.0		10.8 ± 3.0		10.5 ± 3.0
	PDW		16.4 ± 3.0		16.7 ± 3.0		16.7 ± 3.0
	PCT	%	0.056 ± 0.050		0.217 ± 0.100		0.390 ± 0.200
	P-LCR	%	32.6 ± 20.0		31.8 ± 10.0		31.0 ± 10.0
	P-LCC	x 10 <sup>9</sup> /L	17 ± 12		64 ± 24		115 ± 50
	IMG#	x 10 <sup>9</sup> /L	0.05 ± 0.39		0.10 ± 0.77		0.27 ± 2.08
	IMG%	%	1.3 ± 10.0		1.3 ± 10.0		1.3 ± 10.0
	NRBC#	x 10 <sup>9</sup> /L	0.270 ± 0.270		0.277 ± 0.277		0.397 ± 0.397
	NRBC%	/100 WBC	7.39 ± 7.39		3.72 ± 3.72		1.94 ± 1.94

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