

Revised 2025-02-21

# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2503B

2025-05-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2503BL	LOT	BC2503BN	LOT	BC2503BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.44 $\pm$ 0.50		7.77 $\pm$ 1.00		18.05 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.72 $\pm$ 0.32		4.35 $\pm$ 0.70		11.51 $\pm$ 1.63	
	Lym# $\times 10^9/L$		1.32 $\pm$ 0.31		2.37 $\pm$ 0.63		3.70 $\pm$ 1.45	
	Mon# $\times 10^9/L$		0.23 $\pm$ 0.17		0.46 $\pm$ 0.39		1.16 $\pm$ 0.91	
	Eos# $\times 10^9/L$		0.14 $\pm$ 0.10		0.51 $\pm$ 0.39		1.50 $\pm$ 1.09	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.08 $\pm$ 0.08		0.18 $\pm$ 0.18	
	Neu%		49.6 $\pm$ 9.0		56.0 $\pm$ 9.0		63.8 $\pm$ 9.0	
	Lym%		38.4 $\pm$ 9.0		30.5 $\pm$ 8.0		20.5 $\pm$ 8.0	
	Mon%		6.8 $\pm$ 5.0		5.9 $\pm$ 5.0		6.4 $\pm$ 5.0	
	Eos%		4.2 $\pm$ 3.0		6.6 $\pm$ 5.0		8.3 $\pm$ 6.0	
	Bas%		1.0 $\pm$ 1.0		1.0 $\pm$ 1.0		1.0 $\pm$ 1.0	
	RBC $\times 10^{12}/L$		2.09 $\pm$ 0.18		4.11 $\pm$ 0.24		4.92 $\pm$ 0.30	
	HGB g/L		59 $\pm$ 4		128 $\pm$ 6		165 $\pm$ 8	
	HCT %		17.9 $\pm$ 1.5		39.0 $\pm$ 2.0		51.2 $\pm$ 2.4	
	MCV fL		85.7 $\pm$ 5.0		94.8 $\pm$ 5.0		104.0 $\pm$ 5.0	
	MCH pg		28.2 $\pm$ 2.5		31.1 $\pm$ 2.5		33.5 $\pm$ 2.5	
	MCHC g/L		329 $\pm$ 30		329 $\pm$ 30		322 $\pm$ 30	
	RDW-CV %		15.7 $\pm$ 3.0		13.8 $\pm$ 3.0		13.2 $\pm$ 3.0	
	RDW-SD fL		48.3 $\pm$ 10.0		48.9 $\pm$ 10.0		50.8 $\pm$ 10.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		254 $\pm$ 40		495 $\pm$ 60	
	MPV fL		8.7 $\pm$ 3.0		9.3 $\pm$ 3.0		9.5 $\pm$ 3.0	
	PCT %*		0.042 $\pm$ 0.042		0.236 $\pm$ 0.100		0.470 $\pm$ 0.200	
	PDW*		16.0 $\pm$ 3.0		16.3 $\pm$ 3.0		16.3 $\pm$ 3.0	
	P-LCC $\times 10^9/L$		12 $\pm$ 11		70 $\pm$ 25		145 $\pm$ 35	
	P-LCR %		24.7 $\pm$ 10.0		27.7 $\pm$ 10.0		29.2 $\pm$ 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.20 $\pm$ 0.50		7.60 $\pm$ 1.00		17.40 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.73 $\pm$ 0.29		4.41 $\pm$ 0.69		11.40 $\pm$ 1.57	
	Lym# $\times 10^9/L$		1.12 $\pm$ 0.29		2.24 $\pm$ 0.69		3.13 $\pm$ 1.40	
	Mon# $\times 10^9/L$		0.21 $\pm$ 0.17		0.34 $\pm$ 0.23		1.04 $\pm$ 0.70	
	Eos# $\times 10^9/L$		0.14 $\pm$ 0.10		0.61 $\pm$ 0.46		1.83 $\pm$ 1.40	
	Bas# $\times 10^9/L$		0.80 $\pm$ 0.32		2.09 $\pm$ 0.76		5.39 $\pm$ 1.74	
	Neu%		54.0 $\pm$ 9.0		58.0 $\pm$ 9.0		65.5 $\pm$ 9.0	
	Lym%		35.0 $\pm$ 9.0		29.5 $\pm$ 9.0		18.0 $\pm$ 8.0	
	Mon%		6.5 $\pm$ 5.0		4.5 $\pm$ 3.0		6.0 $\pm$ 4.0	
	Eos%		4.5 $\pm$ 3.0		8.0 $\pm$ 6.0		10.5 $\pm$ 8.0	
	Bas%		25.0 $\pm$ 10.0		27.5 $\pm$ 10.0		31.0 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.01 $\pm$ 0.18		4.03 $\pm$ 0.24		4.88 $\pm$ 0.30	
	HGB g/L		54 $\pm$ 4		118 $\pm$ 6		153 $\pm$ 8	
	HCT %		17.2 $\pm$ 1.5		37.1 $\pm$ 2.0		49.0 $\pm$ 2.4	
	MCV fL		85.5 $\pm$ 5.0		92.0 $\pm$ 5.0		100.5 $\pm$ 5.0	
	MCH pg		26.9 $\pm$ 2.5		29.3 $\pm$ 2.5		31.4 $\pm$ 2.5	
	MCHC g/L		314 $\pm$ 30		318 $\pm$ 30		312 $\pm$ 30	
	RDW-CV %		15.5 $\pm$ 3.0		13.5 $\pm$ 3.0		13.0 $\pm$ 3.0	
	RDW-SD fL		50.0 $\pm$ 8.0		48.5 $\pm$ 8.0		50.0 $\pm$ 8.0	
	PLT $\times 10^9/L$		50 $\pm$ 20		244 $\pm$ 40		485 $\pm$ 60	
	MPV fL		12.0 $\pm$ 3.0		12.2 $\pm$ 3.0		12.2 $\pm$ 3.0	

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Revised 2025-02-21

# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES


**BC2503B**  
**2025-05-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2503BL	LOT	BC2503BN	LOT	BC2503BH	
<b>BC-5390 CRP</b>	WBC $\times 10^9/L$		3.24 $\pm$ 0.50		7.63 $\pm$ 1.00		17.64 $\pm$ 2.50	
<b>BC-5310 CRP</b>	Neu# $\times 10^9/L$		1.72 $\pm$ 0.30		4.44 $\pm$ 0.69		11.55 $\pm$ 1.59	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.17 $\pm$ 0.30		2.17 $\pm$ 0.61		3.23 $\pm$ 1.42	
	Mon# $\times 10^9/L$		0.20 $\pm$ 0.14		0.41 $\pm$ 0.31		1.11 $\pm$ 0.71	
	Eos# $\times 10^9/L$		0.15 $\pm$ 0.10		0.61 $\pm$ 0.46		1.75 $\pm$ 1.42	
	Bas# $\times 10^9/L$		0.82 $\pm$ 0.33		2.10 $\pm$ 0.77		5.38 $\pm$ 1.77	
	Neu%		53.1 $\pm$ 9.0		58.1 $\pm$ 9.0		65.5 $\pm$ 9.0	
	Lym%		36.1 $\pm$ 9.0		28.5 $\pm$ 8.0		18.3 $\pm$ 8.0	
	Mon%		6.1 $\pm$ 4.0		5.4 $\pm$ 4.0		6.3 $\pm$ 4.0	
	Eos%		4.7 $\pm$ 3.0		8.0 $\pm$ 6.0		9.9 $\pm$ 8.0	
	Bas%		25.4 $\pm$ 10.0		27.5 $\pm$ 10.0		30.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.03 $\pm$ 0.18		4.05 $\pm$ 0.24		4.84 $\pm$ 0.30	
	HGB g/L		55 $\pm$ 4		118 $\pm$ 6		153 $\pm$ 8	
	HCT %		17.0 $\pm$ 1.5		37.8 $\pm$ 2.0		49.5 $\pm$ 2.4	
	MCV fL		83.7 $\pm$ 5.0		93.4 $\pm$ 5.0		102.3 $\pm$ 5.0	
	MCH pg		27.1 $\pm$ 2.5		29.1 $\pm$ 2.5		31.6 $\pm$ 2.5	
	MCHC g/L		324 $\pm$ 30		312 $\pm$ 30		309 $\pm$ 30	
	RDW-CV %		16.1 $\pm$ 3.0		14.4 $\pm$ 3.0		13.8 $\pm$ 3.0	
	RDW-SD fL		47.6 $\pm$ 8.0		47.7 $\pm$ 8.0		49.3 $\pm$ 8.0	
	PLT $\times 10^9/L$		43 $\pm$ 20		241 $\pm$ 40		480 $\pm$ 60	
	MPV fL		10.0 $\pm$ 3.0		10.1 $\pm$ 3.0		10.2 $\pm$ 3.0	
	PCT %*		0.043 $\pm$ 0.043		0.243 $\pm$ 0.100		0.490 $\pm$ 0.200	
	PDW*		15.6 $\pm$ 3.0		16.3 $\pm$ 3.0		16.3 $\pm$ 3.0	
	P-LCC $\times 10^9/L$		11 $\pm$ 11		63 $\pm$ 25		132 $\pm$ 35	
	P-LCR %		26.0 $\pm$ 10.0		26.3 $\pm$ 10.0		27.6 $\pm$ 10.0	
<b>BC-5300, BC-5100</b>	WBC $\times 10^9/L$		3.25 $\pm$ 0.50		7.55 $\pm$ 1.00		17.65 $\pm$ 2.50	
<b>BC-5380, BC-5180</b>	Neu# $\times 10^9/L$		1.77 $\pm$ 0.33		4.64 $\pm$ 0.76		11.65 $\pm$ 1.77	
<b>QC Mode</b> (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$		1.19 $\pm$ 0.30		2.11 $\pm$ 0.68		3.27 $\pm$ 1.59	
	Mon# $\times 10^9/L$		0.13 $\pm$ 0.13		0.23 $\pm$ 0.23		0.88 $\pm$ 0.71	
	Eos# $\times 10^9/L$		0.16 $\pm$ 0.13		0.57 $\pm$ 0.54		1.85 $\pm$ 1.41	
	Bas# $\times 10^9/L$		1.90 $\pm$ 0.33		5.02 $\pm$ 0.76		13.86 $\pm$ 1.77	
	Neu%		54.5 $\pm$ 10.0		61.5 $\pm$ 10.0		66.0 $\pm$ 10.0	
	Lym%		36.5 $\pm$ 9.0		28.0 $\pm$ 9.0		18.5 $\pm$ 9.0	
	Mon%		4.0 $\pm$ 4.0		3.0 $\pm$ 3.0		5.0 $\pm$ 4.0	
	Eos%		5.0 $\pm$ 4.0		7.5 $\pm$ 7.0		10.5 $\pm$ 8.0	
	Bas%		58.5 $\pm$ 10.0		66.5 $\pm$ 10.0		78.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.03 $\pm$ 0.18		4.04 $\pm$ 0.24		4.86 $\pm$ 0.30	
	HGB g/L		55 $\pm$ 4		119 $\pm$ 6		153 $\pm$ 8	
	HCT %		17.8 $\pm$ 1.5		39.0 $\pm$ 2.0		51.3 $\pm$ 2.4	
	MCV fL		87.5 $\pm$ 5.0		96.5 $\pm$ 5.0		105.5 $\pm$ 5.0	
	MCH pg		27.1 $\pm$ 2.5		29.5 $\pm$ 2.5		31.5 $\pm$ 2.5	
	MCHC g/L		310 $\pm$ 30		305 $\pm$ 30		298 $\pm$ 30	
	RDW-CV %		15.5 $\pm$ 3.0		13.5 $\pm$ 3.0		13.0 $\pm$ 3.0	
	RDW-SD fL		60.5 $\pm$ 8.0		60.5 $\pm$ 8.0		61.5 $\pm$ 8.0	
	PLT $\times 10^9/L$		44 $\pm$ 20		234 $\pm$ 40		463 $\pm$ 60	
	MPV fL		9.7 $\pm$ 3.0		9.7 $\pm$ 3.0		9.7 $\pm$ 3.0	
	PCT %*		0.042 $\pm$ 0.042		0.223 $\pm$ 0.100		0.447 $\pm$ 0.200	
	PDW*		15.7 $\pm$ 3.0		16.3 $\pm$ 3.0		16.3 $\pm$ 3.0	

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Revised 2025-02-21

# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2503B



2025-05-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2503BL	LOT	BC2503BN	LOT	BC2503BH	
<b>BC-5300, BC-5100</b> <b>BC-5380, BC-5180</b> <b>QC Mode</b> (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$		3.22 $\pm$ 0.50		7.59 $\pm$ 1.00		17.51 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.78 $\pm$ 0.29		4.67 $\pm$ 0.69		11.59 $\pm$ 1.58	
	Lym# $\times 10^9/L$		1.15 $\pm$ 0.29		2.09 $\pm$ 0.69		3.26 $\pm$ 1.41	
	Mon# $\times 10^9/L$		0.10 $\pm$ 0.10		0.23 $\pm$ 0.23		0.82 $\pm$ 0.70	
	Eos# $\times 10^9/L$		0.19 $\pm$ 0.14		0.60 $\pm$ 0.46		1.84 $\pm$ 1.41	
	Bas# $\times 10^9/L$		1.87 $\pm$ 0.33		5.10 $\pm$ 0.76		13.76 $\pm$ 1.75	
	Neu%		55.4 $\pm$ 9.0		61.5 $\pm$ 9.0		66.2 $\pm$ 9.0	
	Lym%		35.6 $\pm$ 9.0		27.6 $\pm$ 9.0		18.6 $\pm$ 8.0	
	Mon%		3.2 $\pm$ 3.0		3.0 $\pm$ 3.0		4.7 $\pm$ 4.0	
	Eos%		5.8 $\pm$ 4.0		7.9 $\pm$ 6.0		10.5 $\pm$ 8.0	
	Bas%		58.2 $\pm$ 10.0		67.2 $\pm$ 10.0		78.6 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.06 $\pm$ 0.18		4.05 $\pm$ 0.24		4.85 $\pm$ 0.30	
	HGB g/L		56 $\pm$ 4		119 $\pm$ 6		154 $\pm$ 8	
	HCT %		17.8 $\pm$ 1.5		38.6 $\pm$ 2.0		50.6 $\pm$ 2.4	
	MCV fL		86.3 $\pm$ 5.0		95.4 $\pm$ 5.0		104.4 $\pm$ 5.0	
	MCH pg		27.2 $\pm$ 2.5		29.4 $\pm$ 2.5		31.8 $\pm$ 2.5	
	MCHC g/L		315 $\pm$ 30		308 $\pm$ 30		304 $\pm$ 30	
	RDW-CV %		15.8 $\pm$ 3.0		14.3 $\pm$ 3.0		13.8 $\pm$ 3.0	
	RDW-SD fL		57.4 $\pm$ 8.0		57.7 $\pm$ 8.0		59.8 $\pm$ 8.0	
	PLT $\times 10^9/L$		45 $\pm$ 20		245 $\pm$ 40		484 $\pm$ 60	
<b>BC-5000, BC-5150, BC-5120</b> <b>BC-5130, BC-5140, BC-5000VET</b> <b>QC Mode</b>	MPV fL		9.4 $\pm$ 3.0		9.4 $\pm$ 3.0		9.6 $\pm$ 3.0	
	PCT %*		0.042 $\pm$ 0.042		0.230 $\pm$ 0.100		0.465 $\pm$ 0.200	
	PDW*		15.8 $\pm$ 3.0		16.3 $\pm$ 3.0		16.4 $\pm$ 3.0	
	WBC $\times 10^9/L$		3.40 $\pm$ 0.50		7.82 $\pm$ 1.00		17.98 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.75 $\pm$ 0.41		4.52 $\pm$ 0.94		11.56 $\pm$ 2.16	
	Lym# $\times 10^9/L$		1.20 $\pm$ 0.31		2.13 $\pm$ 0.63		3.20 $\pm$ 1.44	
	Mon# $\times 10^9/L$		0.28 $\pm$ 0.28		0.50 $\pm$ 0.50		1.22 $\pm$ 1.22	
	Eos# $\times 10^9/L$		0.14 $\pm$ 0.14		0.57 $\pm$ 0.57		1.69 $\pm$ 1.69	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.10 $\pm$ 0.10		0.31 $\pm$ 0.31	
	Neu%		51.4 $\pm$ 12.0		57.7 $\pm$ 12.0		64.3 $\pm$ 12.0	
	Lym%		35.2 $\pm$ 9.0		27.3 $\pm$ 8.0		17.8 $\pm$ 8.0	
	Mon%		8.3 $\pm$ 8.3		6.4 $\pm$ 6.4		6.8 $\pm$ 6.8	
	Eos%		4.1 $\pm$ 4.1		7.3 $\pm$ 7.3		9.4 $\pm$ 9.4	
	Bas%		1.0 $\pm$ 1.0		1.3 $\pm$ 1.3		1.7 $\pm$ 1.7	
	RBC $\times 10^{12}/L$		2.07 $\pm$ 0.18		4.18 $\pm$ 0.24		5.03 $\pm$ 0.30	
	HGB g/L		56 $\pm$ 4		120 $\pm$ 6		157 $\pm$ 8	
	HCT %		17.6 $\pm$ 1.5		39.0 $\pm$ 2.0		50.5 $\pm$ 2.4	
	MCV fL		85.1 $\pm$ 5.0		93.2 $\pm$ 5.0		100.4 $\pm$ 5.0	
	MCH pg		27.1 $\pm$ 2.5		28.7 $\pm$ 2.5		31.2 $\pm$ 2.5	
	MCHC g/L		318 $\pm$ 30		308 $\pm$ 30		311 $\pm$ 30	
	RDW-CV %		19.5 $\pm$ 3.0		17.0 $\pm$ 3.0		16.2 $\pm$ 3.0	
	RDW-SD fL		59.9 $\pm$ 8.0		57.8 $\pm$ 8.0		59.5 $\pm$ 8.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		255 $\pm$ 40		509 $\pm$ 60	
	MPV fL		11.1 $\pm$ 3.0		11.3 $\pm$ 3.0		11.5 $\pm$ 3.0	
	PCT %*		0.053 $\pm$ 0.053		0.288 $\pm$ 0.100		0.585 $\pm$ 0.200	
	PDW*		15.5 $\pm$ 3.0		16.4 $\pm$ 3.0		16.5 $\pm$ 3.0	
	P-LCC $\times 10^9/L$ **		17 $\pm$ 17		89 $\pm$ 25		185 $\pm$ 35	
	P-LCR %**		35.3 $\pm$ 10.0		34.8 $\pm$ 10.0		36.4 $\pm$ 10.0	

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\*\* These parameters are not provided on BC-5000/BC-5000 Vet analyzers

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# BC-5D

## HEMATOLOGY CONTROLS

**CONTROL**

ASSAY VALUES AND EXPECTED RANGES

**LOT****BC2503B****2025-05-10**

Instrument	Parameter	Low		Normal		High		++++
		<b>LOT</b>	<b>BC2503BL</b>	<b>LOT</b>	<b>BC2503BN</b>	<b>LOT</b>	<b>BC2503BH</b>	
<b>BC-5300Vet, BC-5100Vet</b> <b>QC Mode</b>	WBC $\times 10^9/L$		3.25 $\pm$ 0.50		7.55 $\pm$ 1.00		17.65 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.77 $\pm$ 0.33		4.64 $\pm$ 0.76		11.65 $\pm$ 1.77	
	Lym# $\times 10^9/L$		1.19 $\pm$ 0.30		2.11 $\pm$ 0.68		3.27 $\pm$ 1.59	
	Mon# $\times 10^9/L$		0.13 $\pm$ 0.13		0.23 $\pm$ 0.23		0.88 $\pm$ 0.71	
	Eos# $\times 10^9/L$		0.16 $\pm$ 0.13		0.57 $\pm$ 0.54		1.85 $\pm$ 1.41	
	Neu%		54.5 $\pm$ 10.0		61.5 $\pm$ 10.0		66.0 $\pm$ 10.0	
	Lym%		36.5 $\pm$ 9.0		28.0 $\pm$ 9.0		18.5 $\pm$ 9.0	
	Mon%		4.0 $\pm$ 4.0		3.0 $\pm$ 3.0		5.0 $\pm$ 4.0	
	Eos%		5.0 $\pm$ 4.0		7.5 $\pm$ 7.0		10.5 $\pm$ 8.0	
	RBC $\times 10^{12}/L$		2.03 $\pm$ 0.18		4.04 $\pm$ 0.24		4.86 $\pm$ 0.30	
	HGB g/L		55 $\pm$ 4		119 $\pm$ 6		153 $\pm$ 8	
	HCT %		17.8 $\pm$ 1.5		39.0 $\pm$ 2.0		51.3 $\pm$ 2.4	
	MCV fL		87.5 $\pm$ 5.0		96.5 $\pm$ 5.0		105.5 $\pm$ 5.0	
	MCH pg		27.1 $\pm$ 2.5		29.5 $\pm$ 2.5		31.5 $\pm$ 2.5	
	MCHC g/L		310 $\pm$ 30		305 $\pm$ 30		298 $\pm$ 30	
	RDW-CV %		15.5 $\pm$ 3.0		13.5 $\pm$ 3.0		13.0 $\pm$ 3.0	
	RDW-SD fL		60.5 $\pm$ 8.0		60.5 $\pm$ 8.0		61.5 $\pm$ 8.0	
	PLT $\times 10^9/L$		44 $\pm$ 20		234 $\pm$ 40		463 $\pm$ 60	
	MPV fL		9.7 $\pm$ 3.0		9.7 $\pm$ 3.0		9.7 $\pm$ 3.0	
	PCT %*		0.042 $\pm$ 0.042		0.223 $\pm$ 0.100		0.447 $\pm$ 0.200	
	PDW*		15.7 $\pm$ 3.0		16.3 $\pm$ 3.0		16.3 $\pm$ 3.0	

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Mindray

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