

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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BC2503B
2025-05-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2503BL	LOT	BC2503BN	LOT	BC2503BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.24 \pm 0.50		7.63 \pm 1.00		17.64 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.72 \pm 0.30		4.44 \pm 0.69		11.55 \pm 1.59	
QC Mode	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	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.25 \pm 0.50		7.55 \pm 1.00		17.65 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.77 \pm 0.33		4.64 \pm 0.76		11.65 \pm 1.77	
QC Mode	Lym# $\times 10^9/L$		1.19 \pm 0.30		2.11 \pm 0.68		3.27 \pm 1.59	
(Software version lower than 1.24.00.16860)	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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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	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (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	
	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	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	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		12.37 \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		0.41 \pm 0.41	
	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		68.8 \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		2.3 \pm 2.3	
	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		++++
		LOT	BC2503BL	LOT	BC2503BN	LOT	BC2503BH	
BC-5300Vet, BC-5100Vet QC Mode	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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