

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2511B



2026-01-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2511BL	LOT	BC2511BN	LOT	BC2511BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.39 \pm 0.50		7.71 \pm 1.00		18.26 \pm 2.50	
	Neu# $\times 10^9/L$		1.64 \pm 0.31		4.38 \pm 0.70		11.77 \pm 1.65	
	Lym# $\times 10^9/L$		1.37 \pm 0.31		2.35 \pm 0.62		4.15 \pm 1.65	
	Mon# $\times 10^9/L$		0.21 \pm 0.17		0.42 \pm 0.39		0.68 \pm 0.65	
	Eos# $\times 10^9/L$		0.14 \pm 0.11		0.48 \pm 0.39		1.48 \pm 1.28	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.18 \pm 0.18	
	Neu%		48.3 \pm 9.0		56.8 \pm 9.0		64.5 \pm 9.0	
	Lym%		40.4 \pm 9.0		30.5 \pm 8.0		22.7 \pm 9.0	
	Mon%		6.2 \pm 5.0		5.5 \pm 5.0		3.7 \pm 3.5	
	Eos%		4.1 \pm 3.0		6.2 \pm 5.0		8.1 \pm 7.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.18 \pm 0.18		4.04 \pm 0.24		4.91 \pm 0.30	
	HGB g/L		59 \pm 4		128 \pm 6		167 \pm 8	
	HCT %		18.1 \pm 1.5		38.7 \pm 2.0		51.9 \pm 2.4	
	MCV fL		83.1 \pm 5.0		95.9 \pm 5.0		105.8 \pm 5.0	
	MCH pg		27.1 \pm 2.5		31.7 \pm 2.5		34.0 \pm 2.5	
	MCHC g/L		326 \pm 30		330 \pm 30		321 \pm 30	
	RDW-CV %		16.5 \pm 3.0		13.9 \pm 3.0		14.1 \pm 3.0	
	RDW-SD fL		48.2 \pm 10.0		49.3 \pm 10.0		54.8 \pm 10.0	
	PLT $\times 10^9/L$		52 \pm 20		261 \pm 40		507 \pm 60	
	MPV fL		7.6 \pm 3.0		8.6 \pm 3.0		9.0 \pm 3.0	
	PCT %*		0.040 \pm 0.040		0.224 \pm 0.100		0.456 \pm 0.200	
	PDW*		15.7 \pm 3.0		16.1 \pm 3.0		15.6 \pm 3.0	
	P-LCC $\times 10^9/L$		7 \pm 7		57 \pm 25		125 \pm 35	
	P-LCR %		14.1 \pm 10.0		21.9 \pm 10.0		24.7 \pm 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.25 \pm 0.50		7.55 \pm 1.00		17.50 \pm 2.50	
	Neu# $\times 10^9/L$		1.66 \pm 0.30		4.49 \pm 0.68		11.64 \pm 1.58	
	Lym# $\times 10^9/L$		1.12 \pm 0.30		1.89 \pm 0.68		3.33 \pm 1.41	
	Mon# $\times 10^9/L$		0.28 \pm 0.23		0.53 \pm 0.46		0.88 \pm 0.71	
	Eos# $\times 10^9/L$		0.20 \pm 0.17		0.64 \pm 0.53		1.66 \pm 1.40	
	Bas# $\times 10^9/L$		0.83 \pm 0.33		2.15 \pm 0.76		5.34 \pm 1.75	
	Neu%		51.0 \pm 9.0		59.5 \pm 9.0		66.5 \pm 9.0	
	Lym%		34.5 \pm 9.0		25.0 \pm 9.0		19.0 \pm 8.0	
	Mon%		8.5 \pm 7.0		7.0 \pm 6.0		5.0 \pm 4.0	
	Eos%		6.0 \pm 5.0		8.5 \pm 7.0		9.5 \pm 8.0	
	Bas%		25.5 \pm 10.0		28.5 \pm 10.0		30.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.11 \pm 0.18		3.99 \pm 0.24		4.84 \pm 0.30	
	HGB g/L		54 \pm 4		118 \pm 6		155 \pm 8	
	HCT %		17.4 \pm 1.5		37.5 \pm 2.0		50.1 \pm 2.4	
	MCV fL		82.5 \pm 5.0		94.0 \pm 5.0		103.5 \pm 5.0	
	MCH pg		25.6 \pm 2.5		29.6 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		310 \pm 30		315 \pm 30		309 \pm 30	
	RDW-CV %		16.0 \pm 3.0		14.0 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		49.5 \pm 8.0		49.5 \pm 8.0		53.5 \pm 8.0	
	PLT $\times 10^9/L$		53 \pm 20		257 \pm 40		504 \pm 60	
	MPV fL		10.7 \pm 3.0		11.5 \pm 3.0		11.7 \pm 3.0	

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ASSAY VALUES AND EXPECTED RANGES


BC2511B
2026-01-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2511BL	LOT	BC2511BN	LOT	BC2511BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.31 \pm 0.50		7.59 \pm 1.00		17.81 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.68 \pm 0.30		4.56 \pm 0.69		11.95 \pm 1.61	
QC Mode	Lym# $\times 10^9/L$		1.13 \pm 0.30		1.93 \pm 0.61		3.40 \pm 1.43	
	Mon# $\times 10^9/L$		0.30 \pm 0.26		0.52 \pm 0.46		0.91 \pm 0.72	
	Eos# $\times 10^9/L$		0.20 \pm 0.17		0.58 \pm 0.46		1.55 \pm 1.25	
	Bas# $\times 10^9/L$		0.85 \pm 0.33		2.16 \pm 0.76		5.45 \pm 1.79	
	Neu%		50.6 \pm 9.0		60.1 \pm 9.0		67.1 \pm 9.0	
	Lym%		34.1 \pm 9.0		25.4 \pm 8.0		19.1 \pm 8.0	
	Mon%		9.2 \pm 8.0		6.8 \pm 6.0		5.1 \pm 4.0	
	Eos%		6.1 \pm 5.0		7.7 \pm 6.0		8.7 \pm 7.0	
	Bas%		25.8 \pm 10.0		28.5 \pm 10.0		30.6 \pm 10.0	
	RBC $\times 10^{12}/L$		2.14 \pm 0.18		3.99 \pm 0.24		4.87 \pm 0.30	
	HGB g/L		54 \pm 4		118 \pm 6		156 \pm 8	
	HCT %		17.3 \pm 1.5		37.5 \pm 2.0		50.6 \pm 2.4	
	MCV fL		80.8 \pm 5.0		94.1 \pm 5.0		103.9 \pm 5.0	
	MCH pg		25.2 \pm 2.5		29.6 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		312 \pm 30		314 \pm 30		308 \pm 30	
	RDW-CV %		16.7 \pm 3.0		14.5 \pm 3.0		14.5 \pm 3.0	
	RDW-SD fL		47.7 \pm 8.0		48.5 \pm 8.0		53.2 \pm 8.0	
	PLT $\times 10^9/L$		46 \pm 20		249 \pm 40		498 \pm 60	
	MPV fL		8.6 \pm 3.0		9.5 \pm 3.0		9.6 \pm 3.0	
	PCT %*		0.040 \pm 0.040		0.237 \pm 0.100		0.478 \pm 0.200	
	PDW*		15.4 \pm 3.0		16.2 \pm 3.0		15.8 \pm 3.0	
	P-LCC $\times 10^9/L$		7 \pm 7		54 \pm 25		115 \pm 35	
	P-LCR %		15.9 \pm 10.0		21.8 \pm 10.0		23.1 \pm 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.20 \pm 0.50		7.35 \pm 1.00		17.45 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.68 \pm 0.32		4.59 \pm 0.74		12.22 \pm 1.75	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$		1.12 \pm 0.29		2.06 \pm 0.67		3.40 \pm 1.57	
	Mon# $\times 10^9/L$		0.19 \pm 0.16		0.22 \pm 0.22		0.44 \pm 0.44	
	Eos# $\times 10^9/L$		0.21 \pm 0.17		0.48 \pm 0.37		1.40 \pm 1.05	
	Bas# $\times 10^9/L$		1.86 \pm 0.32		5.15 \pm 0.74		13.70 \pm 1.75	
	Neu%		52.5 \pm 10.0		62.5 \pm 10.0		70.0 \pm 10.0	
	Lym%		35.0 \pm 9.0		28.0 \pm 9.0		19.5 \pm 9.0	
	Mon%		6.0 \pm 5.0		3.0 \pm 3.0		2.5 \pm 2.5	
	Eos%		6.5 \pm 5.0		6.5 \pm 5.0		8.0 \pm 6.0	
	Bas%		58.0 \pm 10.0		70.0 \pm 10.0		78.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.14 \pm 0.18		3.97 \pm 0.24		4.87 \pm 0.30	
	HGB g/L		55 \pm 4		117 \pm 6		155 \pm 8	
	HCT %		18.2 \pm 1.5		38.9 \pm 2.0		52.4 \pm 2.4	
	MCV fL		85.0 \pm 5.0		98.0 \pm 5.0		107.5 \pm 5.0	
	MCH pg		25.7 \pm 2.5		29.5 \pm 2.5		31.8 \pm 2.5	
	MCHC g/L		302 \pm 30		301 \pm 30		296 \pm 30	
	RDW-CV %		16.0 \pm 3.0		14.0 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		60.0 \pm 8.0		60.5 \pm 8.0		65.0 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		242 \pm 40		480 \pm 60	
	MPV fL		7.8 \pm 3.0		8.5 \pm 3.0		8.7 \pm 3.0	
	PCT %*		0.037 \pm 0.037		0.205 \pm 0.100		0.417 \pm 0.200	
	PDW*		15.7 \pm 3.0		16.1 \pm 3.0		15.8 \pm 3.0	

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2511B

2026-01-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2511BL	LOT	BC2511BN	LOT	BC2511BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$		3.24 \pm 0.50		7.48 \pm 1.00		17.55 \pm 2.50	
	Neu# $\times 10^9/L$		1.72 \pm 0.33		4.84 \pm 0.75		12.29 \pm 1.76	
	Lym# $\times 10^9/L$		1.13 \pm 0.30		1.97 \pm 0.68		3.35 \pm 1.41	
	Mon# $\times 10^9/L$		0.18 \pm 0.13		0.21 \pm 0.21		0.51 \pm 0.51	
	Eos# $\times 10^9/L$		0.21 \pm 0.16		0.46 \pm 0.38		1.40 \pm 1.05	
	Bas# $\times 10^9/L$		1.89 \pm 0.33		5.27 \pm 0.75		13.81 \pm 1.76	
	Neu%		52.8 \pm 10.0		64.7 \pm 10.0		70.0 \pm 10.0	
	Lym%		34.9 \pm 9.0		26.4 \pm 9.0		19.1 \pm 8.0	
	Mon%		5.7 \pm 4.0		2.8 \pm 2.8		2.9 \pm 2.9	
	Eos%		6.6 \pm 5.0		6.1 \pm 5.0		8.0 \pm 6.0	
	Bas%		58.3 \pm 10.0		70.5 \pm 10.0		78.7 \pm 10.0	
	RBC $\times 10^{12}/L$		2.15 \pm 0.18		3.99 \pm 0.24		4.84 \pm 0.30	
	HGB g/L		55 \pm 4		119 \pm 6		156 \pm 8	
	HCT %		17.8 \pm 1.5		38.3 \pm 2.0		50.9 \pm 2.4	
	MCV fL		83.0 \pm 5.0		96.0 \pm 5.0		105.2 \pm 5.0	
	MCH pg		25.6 \pm 2.5		29.8 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		308 \pm 30		311 \pm 30		306 \pm 30	
	RDW-CV %		16.4 \pm 3.0		14.7 \pm 3.0		14.6 \pm 3.0	
	RDW-SD fL		57.3 \pm 8.0		58.5 \pm 8.0		64.0 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		252 \pm 40		496 \pm 60	
	MPV fL		8.1 \pm 3.0		8.9 \pm 3.0		9.1 \pm 3.0	
	PCT %*		0.039 \pm 0.039		0.224 \pm 0.100		0.451 \pm 0.200	
	PDW*		15.6 \pm 3.0		16.3 \pm 3.0		15.8 \pm 3.0	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	WBC $\times 10^9/L$		3.29 \pm 0.50		7.53 \pm 1.00		17.67 \pm 2.50	
	Neu# $\times 10^9/L$		1.58 \pm 0.40		4.48 \pm 0.91		11.62 \pm 2.12	
	Lym# $\times 10^9/L$		1.14 \pm 0.30		1.91 \pm 0.61		3.36 \pm 1.42	
	Mon# $\times 10^9/L$		0.34 \pm 0.34		0.59 \pm 0.59		1.08 \pm 1.08	
	Eos# $\times 10^9/L$		0.20 \pm 0.20		0.47 \pm 0.47		1.38 \pm 1.38	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.23 \pm 0.23	
	Neu%		47.6 \pm 12.0		59.6 \pm 12.0		65.8 \pm 12.0	
	Lym%		34.8 \pm 9.0		25.3 \pm 8.0		19.0 \pm 8.0	
	Mon%		10.4 \pm 10.4		7.9 \pm 7.9		6.1 \pm 6.1	
	Eos%		6.2 \pm 6.2		6.2 \pm 6.2		7.8 \pm 7.8	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.3 \pm 1.3	
	RBC $\times 10^{12}/L$		2.17 \pm 0.18		4.07 \pm 0.24		4.98 \pm 0.30	
	HGB g/L		56 \pm 4		121 \pm 6		161 \pm 8	
	HCT %		17.8 \pm 1.5		38.3 \pm 2.0		50.4 \pm 2.4	
	MCV fL		81.9 \pm 5.0		94.0 \pm 5.0		101.3 \pm 5.0	
	MCH pg		25.8 \pm 2.5		29.7 \pm 2.5		32.3 \pm 2.5	
	MCHC g/L		315 \pm 30		316 \pm 30		319 \pm 30	
	RDW-CV %		19.9 \pm 3.0		16.9 \pm 3.0		16.8 \pm 3.0	
	RDW-SD fL		59.4 \pm 8.0		58.6 \pm 8.0		63.2 \pm 8.0	
	PLT $\times 10^9/L$		51 \pm 20		260 \pm 40		518 \pm 60	
	MPV fL		9.8 \pm 3.0		10.7 \pm 3.0		11.1 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.278 \pm 0.100		0.575 \pm 0.200	
	PDW*		15.3 \pm 3.0		16.2 \pm 3.0		16.0 \pm 3.0	
	P-LCC $\times 10^9/L$ **		13 \pm 13		82 \pm 25		176 \pm 35	
	P-LCR %**		25.6 \pm 10.0		31.5 \pm 10.0		33.9 \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**BC2511B****2026-01-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2511BL	LOT	BC2511BN	LOT	BC2511BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.20 \pm 0.50		7.35 \pm 1.00		17.45 \pm 2.50	
	Neu# $\times 10^9/L$		1.68 \pm 0.32		4.59 \pm 0.74		12.22 \pm 1.75	
	Lym# $\times 10^9/L$		1.12 \pm 0.29		2.06 \pm 0.67		3.40 \pm 1.57	
	Mon# $\times 10^9/L$		0.19 \pm 0.16		0.22 \pm 0.22		0.44 \pm 0.44	
	Eos# $\times 10^9/L$		0.21 \pm 0.17		0.48 \pm 0.37		1.40 \pm 1.05	
	Neu%		52.5 \pm 10.0		62.5 \pm 10.0		70.0 \pm 10.0	
	Lym%		35.0 \pm 9.0		28.0 \pm 9.0		19.5 \pm 9.0	
	Mon%		6.0 \pm 5.0		3.0 \pm 3.0		2.5 \pm 2.5	
	Eos%		6.5 \pm 5.0		6.5 \pm 5.0		8.0 \pm 6.0	
	RBC $\times 10^{12}/L$		2.14 \pm 0.18		3.97 \pm 0.24		4.87 \pm 0.30	
	HGB g/L		55 \pm 4		117 \pm 6		155 \pm 8	
	HCT %		18.2 \pm 1.5		38.9 \pm 2.0		52.4 \pm 2.4	
	MCV fL		85.0 \pm 5.0		98.0 \pm 5.0		107.5 \pm 5.0	
	MCH pg		25.7 \pm 2.5		29.5 \pm 2.5		31.8 \pm 2.5	
	MCHC g/L		302 \pm 30		301 \pm 30		296 \pm 30	
	RDW-CV %		16.0 \pm 3.0		14.0 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		60.0 \pm 8.0		60.5 \pm 8.0		65.0 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		242 \pm 40		480 \pm 60	
	MPV fL		7.8 \pm 3.0		8.5 \pm 3.0		8.7 \pm 3.0	
	PCT %*		0.037 \pm 0.037		0.205 \pm 0.100		0.417 \pm 0.200	
	PDW*		15.7 \pm 3.0		16.1 \pm 3.0		15.8 \pm 3.0	

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