

BC-5D

HEMATOLOGY CONTROLS

CONTROL

Revised 2025-04-16

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2505B



2025-07-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2505BL	LOT	BC2505BN	LOT	BC2505BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.31 \pm 0.50		7.97 \pm 1.00		17.82 \pm 2.50	
	Neu# $\times 10^9/L$		1.65 \pm 0.30		4.41 \pm 0.72		11.47 \pm 1.61	
	Lym# $\times 10^9/L$		1.28 \pm 0.30		2.37 \pm 0.64		3.44 \pm 1.43	
	Mon# $\times 10^9/L$		0.20 \pm 0.17		0.58 \pm 0.48		1.18 \pm 0.90	
	Eos# $\times 10^9/L$		0.15 \pm 0.14		0.53 \pm 0.41		1.55 \pm 1.07	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.18 \pm 0.18	
	Neu%		49.9 \pm 9.0		55.4 \pm 9.0		64.4 \pm 9.0	
	Lym%		38.6 \pm 9.0		29.7 \pm 8.0		19.3 \pm 8.0	
	Mon%		6.0 \pm 5.0		7.3 \pm 6.0		6.6 \pm 5.0	
	Eos%		4.5 \pm 4.0		6.6 \pm 5.0		8.7 \pm 6.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.36 \pm 0.18		4.09 \pm 0.24		5.00 \pm 0.30	
	HGB g/L		66 \pm 4		127 \pm 6		170 \pm 8	
	HCT %		20.4 \pm 1.5		38.6 \pm 2.0		52.9 \pm 2.4	
	MCV fL		86.5 \pm 5.0		94.3 \pm 5.0		105.7 \pm 5.0	
	MCH pg		28.0 \pm 2.5		31.1 \pm 2.5		34.0 \pm 2.5	
	MCHC g/L		323 \pm 30		329 \pm 30		322 \pm 30	
	RDW-CV %		17.0 \pm 3.0		14.5 \pm 3.0		13.8 \pm 3.0	
	RDW-SD fL		52.5 \pm 10.0		50.3 \pm 10.0		52.8 \pm 10.0	
	PLT $\times 10^9/L$		54 \pm 20		246 \pm 40		495 \pm 60	
	MPV fL		7.4 \pm 3.0		10.6 \pm 3.0		9.9 \pm 3.0	
	PCT %*		0.040 \pm 0.036		0.261 \pm 0.100		0.490 \pm 0.200	
	PDW*		16.1 \pm 3.0		16.2 \pm 3.0		16.4 \pm 3.0	
	P-LCC $\times 10^9/L$		9 \pm 9		99 \pm 25		160 \pm 35	
	P-LCR %		16.9 \pm 10.0		40.4 \pm 10.0		32.4 \pm 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.10 \pm 0.50		7.60 \pm 1.00		16.90 \pm 2.50	
	Neu# $\times 10^9/L$		1.63 \pm 0.28		4.41 \pm 0.69		11.15 \pm 1.52	
	Lym# $\times 10^9/L$		1.21 \pm 0.28		2.20 \pm 0.69		3.21 \pm 1.36	
	Mon# $\times 10^9/L$		0.09 \pm 0.09		0.42 \pm 0.31		0.93 \pm 0.68	
	Eos# $\times 10^9/L$		0.17 \pm 0.13		0.57 \pm 0.46		1.61 \pm 1.36	
	Bas# $\times 10^9/L$		0.76 \pm 0.31		2.09 \pm 0.76		5.24 \pm 1.69	
	Neu%		52.5 \pm 9.0		58.0 \pm 9.0		66.0 \pm 9.0	
	Lym%		39.0 \pm 9.0		29.0 \pm 9.0		19.0 \pm 8.0	
	Mon%		3.0 \pm 3.0		5.5 \pm 4.0		5.5 \pm 4.0	
	Eos%		5.5 \pm 4.0		7.5 \pm 6.0		9.5 \pm 8.0	
	Bas%		24.5 \pm 10.0		27.5 \pm 10.0		31.0 \pm 10.0	
	RBC $\times 10^{12}/L$		2.27 \pm 0.18		4.02 \pm 0.24		4.94 \pm 0.30	
	HGB g/L		60 \pm 4		117 \pm 6		158 \pm 8	
	HCT %		19.3 \pm 1.5		37.2 \pm 2.0		50.9 \pm 2.4	
	MCV fL		85.0 \pm 5.0		92.5 \pm 5.0		103.0 \pm 5.0	
	MCH pg		26.4 \pm 2.5		29.1 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		311 \pm 30		315 \pm 30		311 \pm 30	
	RDW-CV %		17.0 \pm 3.0		14.5 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		53.5 \pm 8.0		50.0 \pm 8.0		52.0 \pm 8.0	
	PLT $\times 10^9/L$		54 \pm 20		246 \pm 40		496 \pm 60	
	MPV fL		10.3 \pm 3.0		13.5 \pm 3.0		12.6 \pm 3.0	

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES


BC2505B
2025-07-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2505BL	LOT	BC2505BN	LOT	BC2505BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.15 \pm 0.50		7.70 \pm 1.00		17.00 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.64 \pm 0.29		4.47 \pm 0.70		11.21 \pm 1.53	
QC Mode	Lym# $\times 10^9/L$		1.20 \pm 0.29		2.26 \pm 0.62		3.30 \pm 1.36	
	Mon# $\times 10^9/L$		0.14 \pm 0.10		0.42 \pm 0.32		0.82 \pm 0.52	
	Eos# $\times 10^9/L$		0.17 \pm 0.13		0.55 \pm 0.39		1.67 \pm 1.20	
	Bas# $\times 10^9/L$		0.78 \pm 0.32		2.12 \pm 0.77		5.30 \pm 1.70	
	Neu%		52.2 \pm 9.0		58.1 \pm 9.0		66.0 \pm 9.0	
	Lym%		38.1 \pm 9.0		29.4 \pm 8.0		19.4 \pm 8.0	
	Mon%		4.4 \pm 3.0		5.4 \pm 4.0		4.8 \pm 3.0	
	Eos%		5.3 \pm 4.0		7.1 \pm 5.0		9.8 \pm 7.0	
	Bas%		24.7 \pm 10.0		27.5 \pm 10.0		31.2 \pm 10.0	
	RBC $\times 10^{12}/L$		2.29 \pm 0.18		4.02 \pm 0.24		4.96 \pm 0.30	
	HGB g/L		61 \pm 4		117 \pm 6		158 \pm 8	
	HCT %		19.5 \pm 1.5		37.5 \pm 2.0		51.6 \pm 2.4	
	MCV fL		85.1 \pm 5.0		93.2 \pm 5.0		104.1 \pm 5.0	
	MCH pg		26.6 \pm 2.5		29.1 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		313 \pm 30		312 \pm 30		306 \pm 30	
	RDW-CV %		17.3 \pm 3.0		15.1 \pm 3.0		14.2 \pm 3.0	
	RDW-SD fL		51.9 \pm 8.0		49.4 \pm 8.0		51.8 \pm 8.0	
	PLT $\times 10^9/L$		47 \pm 20		239 \pm 40		487 \pm 60	
	MPV fL		8.4 \pm 3.0		11.5 \pm 3.0		10.5 \pm 3.0	
	PCT %*		0.039 \pm 0.039		0.275 \pm 0.100		0.511 \pm 0.200	
	PDW*		16.0 \pm 3.0		16.0 \pm 3.0		16.4 \pm 3.0	
	P-LCC $\times 10^9/L$		8 \pm 8		91 \pm 25		147 \pm 35	
	P-LCR %		16.8 \pm 10.0		38.1 \pm 10.0		30.1 \pm 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.10 \pm 0.50		7.55 \pm 1.00		17.10 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.72 \pm 0.31		4.57 \pm 0.76		11.97 \pm 1.71	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$		1.09 \pm 0.28		2.15 \pm 0.68		2.82 \pm 1.54	
	Mon# $\times 10^9/L$		0.14 \pm 0.13		0.26 \pm 0.26		0.68 \pm 0.51	
	Eos# $\times 10^9/L$		0.16 \pm 0.13		0.57 \pm 0.54		1.62 \pm 1.37	
	Bas# $\times 10^9/L$		1.74 \pm 0.31		5.10 \pm 0.76		13.42 \pm 1.71	
	Neu%		55.5 \pm 10.0		60.5 \pm 10.0		70.0 \pm 10.0	
	Lym%		35.0 \pm 9.0		28.5 \pm 9.0		16.5 \pm 9.0	
	Mon%		4.5 \pm 4.0		3.5 \pm 3.5		4.0 \pm 3.0	
	Eos%		5.0 \pm 4.0		7.5 \pm 7.0		9.5 \pm 8.0	
	Bas%		56.0 \pm 10.0		67.5 \pm 10.0		78.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.31 \pm 0.18		4.02 \pm 0.24		4.92 \pm 0.30	
	HGB g/L		62 \pm 4		117 \pm 6		158 \pm 8	
	HCT %		20.2 \pm 1.5		38.6 \pm 2.0		52.9 \pm 2.4	
	MCV fL		87.5 \pm 5.0		96.0 \pm 5.0		107.5 \pm 5.0	
	MCH pg		26.8 \pm 2.5		29.1 \pm 2.5		32.1 \pm 2.5	
	MCHC g/L		307 \pm 30		303 \pm 30		299 \pm 30	
	RDW-CV %		16.8 \pm 3.0		14.5 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		65.4 \pm 8.0		62.0 \pm 8.0		63.5 \pm 8.0	
	PLT $\times 10^9/L$		50 \pm 20		231 \pm 40		472 \pm 60	
	MPV fL		7.7 \pm 3.0		10.3 \pm 3.0		9.3 \pm 3.0	
	PCT %*		0.039 \pm 0.039		0.242 \pm 0.100		0.440 \pm 0.200	
	PDW*		16.3 \pm 3.0		16.0 \pm 3.0		16.3 \pm 3.0	

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2505B

2025-07-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2505BL	LOT	BC2505BN	LOT	BC2505BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$		3.16 \pm 0.50		7.65 \pm 1.00		16.94 \pm 2.50	
	Neu# $\times 10^9/L$		1.80 \pm 0.29		4.63 \pm 0.69		12.01 \pm 1.53	
	Lym# $\times 10^9/L$		1.08 \pm 0.29		2.20 \pm 0.69		2.59 \pm 1.36	
	Mon# $\times 10^9/L$		0.14 \pm 0.13		0.27 \pm 0.27		0.63 \pm 0.51	
	Eos# $\times 10^9/L$		0.14 \pm 0.14		0.55 \pm 0.46		1.71 \pm 1.36	
	Bas# $\times 10^9/L$		1.77 \pm 0.32		5.14 \pm 0.77		13.45 \pm 1.70	
	Neu%		56.9 \pm 9.0		60.6 \pm 9.0		70.9 \pm 9.0	
	Lym%		34.2 \pm 9.0		28.7 \pm 9.0		15.3 \pm 8.0	
	Mon%		4.5 \pm 4.0		3.5 \pm 3.5		3.7 \pm 3.0	
	Eos%		4.4 \pm 4.4		7.2 \pm 6.0		10.1 \pm 8.0	
	Bas%		55.9 \pm 10.0		67.2 \pm 10.0		79.4 \pm 10.0	
	RBC $\times 10^{12}/L$		2.32 \pm 0.18		4.06 \pm 0.24		4.95 \pm 0.30	
	HGB g/L		61 \pm 4		118 \pm 6		159 \pm 8	
	HCT %		20.0 \pm 1.5		38.5 \pm 2.0		52.4 \pm 2.4	
	MCV fL		86.4 \pm 5.0		94.9 \pm 5.0		105.9 \pm 5.0	
	MCH pg		26.3 \pm 2.5		29.1 \pm 2.5		32.1 \pm 2.5	
	MCHC g/L		304 \pm 30		306 \pm 30		303 \pm 30	
	RDW-CV %		17.1 \pm 3.0		14.8 \pm 3.0		14.1 \pm 3.0	
	RDW-SD fL		62.3 \pm 8.0		59.3 \pm 8.0		62.4 \pm 8.0	
	PLT $\times 10^9/L$		51 \pm 20		241 \pm 40		483 \pm 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL		7.9 \pm 3.0		10.9 \pm 3.0		9.8 \pm 3.0	
	PCT %*		0.040 \pm 0.039		0.263 \pm 0.100		0.473 \pm 0.200	
	PDW*		16.2 \pm 3.0		16.1 \pm 3.0		16.4 \pm 3.0	
	WBC $\times 10^9/L$		3.24 \pm 0.50		7.78 \pm 1.00		17.09 \pm 2.50	
	Neu# $\times 10^9/L$		1.63 \pm 0.39		4.49 \pm 0.94		11.35 \pm 2.06	
	Lym# $\times 10^9/L$		1.14 \pm 0.30		2.19 \pm 0.63		2.63 \pm 1.37	
	Mon# $\times 10^9/L$		0.27 \pm 0.27		0.44 \pm 0.44		1.28 \pm 1.28	
	Eos# $\times 10^9/L$		0.17 \pm 0.17		0.57 \pm 0.57		1.59 \pm 1.59	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.09 \pm 0.09		0.24 \pm 0.24	
	Neu%		50.4 \pm 12.0		57.8 \pm 12.0		66.4 \pm 12.0	
	Lym%		35.1 \pm 9.0		28.2 \pm 8.0		15.4 \pm 8.0	
	Mon%		8.2 \pm 8.2		5.6 \pm 5.6		7.5 \pm 7.5	
	Eos%		5.3 \pm 5.3		7.3 \pm 7.3		9.3 \pm 9.3	
	Bas%		1.0 \pm 1.0		1.1 \pm 1.1		1.4 \pm 1.4	
	RBC $\times 10^{12}/L$		2.35 \pm 0.18		4.14 \pm 0.24		5.10 \pm 0.30	
	HGB g/L		62 \pm 4		120 \pm 6		163 \pm 8	
	HCT %		20.0 \pm 1.5		38.3 \pm 2.0		52.0 \pm 2.4	
	MCV fL		85.1 \pm 5.0		92.4 \pm 5.0		101.9 \pm 5.0	
	MCH pg		26.4 \pm 2.5		29.0 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		310 \pm 30		314 \pm 30		314 \pm 30	
	RDW-CV %		21.1 \pm 3.0		17.6 \pm 3.0		16.2 \pm 3.0	
	RDW-SD fL		65.3 \pm 8.0		59.7 \pm 8.0		60.6 \pm 8.0	
	PLT $\times 10^9/L$		53 \pm 20		245 \pm 40		508 \pm 60	
	MPV fL		9.6 \pm 3.0		13.3 \pm 3.0		11.8 \pm 3.0	
	PCT %*		0.051 \pm 0.051		0.326 \pm 0.100		0.599 \pm 0.200	
	PDW*		15.8 \pm 3.0		16.1 \pm 3.0		16.6 \pm 3.0	
	P-LCC $\times 10^9/L$ **		13 \pm 13		121 \pm 25		194 \pm 35	
	P-LCR %**		25.1 \pm 10.0		49.2 \pm 10.0		38.1 \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**BC2505B****2025-07-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2505BL	LOT	BC2505BN	LOT	BC2505BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.10 \pm 0.50		7.55 \pm 1.00		17.10 \pm 2.50	
	Neu# $\times 10^9/L$		1.72 \pm 0.31		4.57 \pm 0.76		11.97 \pm 1.71	
	Lym# $\times 10^9/L$		1.09 \pm 0.28		2.15 \pm 0.68		2.82 \pm 1.54	
	Mon# $\times 10^9/L$		0.14 \pm 0.13		0.26 \pm 0.26		0.68 \pm 0.51	
	Eos# $\times 10^9/L$		0.16 \pm 0.13		0.57 \pm 0.54		1.62 \pm 1.37	
	Neu%		55.5 \pm 10.0		60.5 \pm 10.0		70.0 \pm 10.0	
	Lym%		35.0 \pm 9.0		28.5 \pm 9.0		16.5 \pm 9.0	
	Mon%		4.5 \pm 4.0		3.5 \pm 3.5		4.0 \pm 3.0	
	Eos%		5.0 \pm 4.0		7.5 \pm 7.0		9.5 \pm 8.0	
	RBC $\times 10^{12}/L$		2.31 \pm 0.18		4.02 \pm 0.24		4.92 \pm 0.30	
	HGB g/L		62 \pm 4		117 \pm 6		158 \pm 8	
	HCT %		20.2 \pm 1.5		38.6 \pm 2.0		52.9 \pm 2.4	
	MCV fL		87.5 \pm 5.0		96.0 \pm 5.0		107.5 \pm 5.0	
	MCH pg		26.8 \pm 2.5		29.1 \pm 2.5		32.1 \pm 2.5	
	MCHC g/L		307 \pm 30		303 \pm 30		299 \pm 30	
	RDW-CV %		16.8 \pm 3.0		14.5 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		65.4 \pm 8.0		62.0 \pm 8.0		63.5 \pm 8.0	
	PLT $\times 10^9/L$		50 \pm 20		231 \pm 40		472 \pm 60	
	MPV fL		7.7 \pm 3.0		10.3 \pm 3.0		9.3 \pm 3.0	
	PCT %*		0.039 \pm 0.039		0.242 \pm 0.100		0.440 \pm 0.200	
	PDW*		16.3 \pm 3.0		16.0 \pm 3.0		16.3 \pm 3.0	

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