

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2509B



2025-11-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2509BL	LOT	BC2509BN	LOT	BC2509BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.49 \pm 0.50		7.68 \pm 1.00		17.89 \pm 2.50	
	Neu# $\times 10^9/L$		1.69 \pm 0.32		4.28 \pm 0.70		11.39 \pm 1.61	
	Lym# $\times 10^9/L$		1.40 \pm 0.32		2.37 \pm 0.62		3.56 \pm 1.44	
	Mon# $\times 10^9/L$		0.23 \pm 0.18		0.46 \pm 0.31		1.20 \pm 0.90	
	Eos# $\times 10^9/L$		0.14 \pm 0.11		0.49 \pm 0.39		1.56 \pm 1.44	
	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		55.7 \pm 9.0		63.7 \pm 9.0	
	Lym%		40.2 \pm 9.0		30.9 \pm 8.0		19.9 \pm 8.0	
	Mon%		6.6 \pm 5.0		6.0 \pm 4.0		6.7 \pm 5.0	
	Eos%		3.9 \pm 3.0		6.4 \pm 5.0		8.7 \pm 8.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.22 \pm 0.18		4.02 \pm 0.24		4.87 \pm 0.30	
	HGB g/L		64 \pm 4		128 \pm 6		166 \pm 8	
	HCT %		19.5 \pm 1.5		38.5 \pm 2.0		50.9 \pm 2.4	
	MCV fL		88.0 \pm 5.0		95.7 \pm 5.0		104.6 \pm 5.0	
	MCH pg		28.8 \pm 2.5		31.8 \pm 2.5		34.1 \pm 2.5	
	MCHC g/L		328 \pm 30		333 \pm 30		326 \pm 30	
	RDW-CV %		14.9 \pm 3.0		13.6 \pm 3.0		13.4 \pm 3.0	
	RDW-SD fL		46.5 \pm 10.0		47.6 \pm 10.0		51.0 \pm 10.0	
	PLT $\times 10^9/L$		53 \pm 20		254 \pm 40		497 \pm 60	
	MPV fL		9.3 \pm 3.0		9.4 \pm 3.0		9.8 \pm 3.0	
	PCT %*		0.049 \pm 0.043		0.239 \pm 0.100		0.487 \pm 0.200	
	PDW*		16.2 \pm 3.0		16.2 \pm 3.0		16.2 \pm 3.0	
	P-LCC $\times 10^9/L$		16 \pm 14		71 \pm 25		153 \pm 35	
	P-LCR %		29.5 \pm 10.0		28.1 \pm 10.0		30.8 \pm 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.25 \pm 0.50		7.40 \pm 1.00		17.10 \pm 2.50	
	Neu# $\times 10^9/L$		1.66 \pm 0.30		4.33 \pm 0.67		11.03 \pm 1.54	
	Lym# $\times 10^9/L$		1.24 \pm 0.30		2.15 \pm 0.67		3.16 \pm 1.37	
	Mon# $\times 10^9/L$		0.18 \pm 0.13		0.33 \pm 0.22		1.03 \pm 0.86	
	Eos# $\times 10^9/L$		0.18 \pm 0.13		0.59 \pm 0.45		1.88 \pm 1.54	
	Bas# $\times 10^9/L$		0.78 \pm 0.33		2.00 \pm 0.74		5.30 \pm 1.71	
	Neu%		51.0 \pm 9.0		58.5 \pm 9.0		64.5 \pm 9.0	
	Lym%		38.0 \pm 9.0		29.0 \pm 9.0		18.5 \pm 8.0	
	Mon%		5.5 \pm 4.0		4.5 \pm 3.0		6.0 \pm 5.0	
	Eos%		5.5 \pm 4.0		8.0 \pm 6.0		11.0 \pm 9.0	
	Bas%		24.0 \pm 10.0		27.0 \pm 10.0		31.0 \pm 10.0	
	RBC $\times 10^{12}/L$		2.16 \pm 0.18		3.96 \pm 0.24		4.85 \pm 0.30	
	HGB g/L		59 \pm 4		118 \pm 6		154 \pm 8	
	HCT %		18.9 \pm 1.5		37.4 \pm 2.0		49.5 \pm 2.4	
	MCV fL		87.5 \pm 5.0		94.5 \pm 5.0		102.0 \pm 5.0	
	MCH pg		27.3 \pm 2.5		29.8 \pm 2.5		31.8 \pm 2.5	
	MCHC g/L		312 \pm 30		315 \pm 30		311 \pm 30	
	RDW-CV %		14.5 \pm 3.0		13.5 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		48.0 \pm 8.0		48.0 \pm 8.0		51.0 \pm 8.0	
	PLT $\times 10^9/L$		55 \pm 20		254 \pm 40		493 \pm 60	
	MPV fL		12.5 \pm 3.0		12.3 \pm 3.0		12.5 \pm 3.0	

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BC2509B
2025-11-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2509BL	LOT	BC2509BN	LOT	BC2509BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.27 \pm 0.50		7.45 \pm 1.00		17.23 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.68 \pm 0.30		4.40 \pm 0.67		11.58 \pm 1.55	
QC Mode	Lym# $\times 10^9/L$		1.27 \pm 0.30		2.18 \pm 0.60		3.22 \pm 1.38	
	Mon# $\times 10^9/L$		0.16 \pm 0.14		0.29 \pm 0.23		1.02 \pm 0.70	
	Eos# $\times 10^9/L$		0.16 \pm 0.14		0.58 \pm 0.45		1.41 \pm 1.21	
	Bas# $\times 10^9/L$		0.78 \pm 0.33		2.03 \pm 0.75		5.36 \pm 1.73	
	Neu%		51.5 \pm 9.0		59.1 \pm 9.0		67.2 \pm 9.0	
	Lym%		38.9 \pm 9.0		29.2 \pm 8.0		18.7 \pm 8.0	
	Mon%		4.8 \pm 4.0		3.9 \pm 3.0		5.9 \pm 4.0	
	Eos%		4.8 \pm 4.0		7.8 \pm 6.0		8.2 \pm 7.0	
	Bas%		24.0 \pm 10.0		27.2 \pm 10.0		31.1 \pm 10.0	
	RBC $\times 10^{12}/L$		2.17 \pm 0.18		3.98 \pm 0.24		4.86 \pm 0.30	
	HGB g/L		59 \pm 4		118 \pm 6		155 \pm 8	
	HCT %		18.6 \pm 1.5		37.5 \pm 2.0		50.0 \pm 2.4	
	MCV fL		85.9 \pm 5.0		94.3 \pm 5.0		102.9 \pm 5.0	
	MCH pg		27.2 \pm 2.5		29.6 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		317 \pm 30		314 \pm 30		310 \pm 30	
	RDW-CV %		15.4 \pm 3.0		14.1 \pm 3.0		13.8 \pm 3.0	
	RDW-SD fL		46.2 \pm 8.0		47.0 \pm 8.0		50.1 \pm 8.0	
	PLT $\times 10^9/L$		47 \pm 20		247 \pm 40		493 \pm 60	
	MPV fL		10.6 \pm 3.0		10.2 \pm 3.0		10.4 \pm 3.0	
	PCT %*		0.050 \pm 0.048		0.252 \pm 0.100		0.513 \pm 0.200	
	PDW*		15.8 \pm 3.0		16.1 \pm 3.0		16.2 \pm 3.0	
	P-LCC $\times 10^9/L$		14 \pm 13		67 \pm 25		145 \pm 35	
	P-LCR %		29.6 \pm 10.0		27.2 \pm 10.0		29.4 \pm 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.20 \pm 0.50		7.40 \pm 1.00		17.30 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.73 \pm 0.32		4.48 \pm 0.74		11.94 \pm 1.73	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$		1.26 \pm 0.29		2.18 \pm 0.67		3.20 \pm 1.56	
	Mon# $\times 10^9/L$		0.08 \pm 0.08		0.19 \pm 0.19		0.43 \pm 0.43	
	Eos# $\times 10^9/L$		0.13 \pm 0.12		0.56 \pm 0.49		1.73 \pm 1.39	
	Bas# $\times 10^9/L$		1.76 \pm 0.32		4.92 \pm 0.74		13.67 \pm 1.73	
	Neu%		54.0 \pm 10.0		60.5 \pm 10.0		69.0 \pm 10.0	
	Lym%		39.5 \pm 9.0		29.5 \pm 9.0		18.5 \pm 9.0	
	Mon%		2.5 \pm 2.5		2.5 \pm 2.5		2.5 \pm 2.5	
	Eos%		4.0 \pm 3.5		7.5 \pm 6.5		10.0 \pm 8.0	
	Bas%		55.0 \pm 10.0		66.5 \pm 10.0		79.0 \pm 10.0	
	RBC $\times 10^{12}/L$		2.19 \pm 0.18		3.96 \pm 0.24		4.81 \pm 0.30	
	HGB g/L		60 \pm 4		117 \pm 6		154 \pm 8	
	HCT %		19.6 \pm 1.5		38.8 \pm 2.0		51.7 \pm 2.4	
	MCV fL		89.5 \pm 5.0		98.0 \pm 5.0		107.5 \pm 5.0	
	MCH pg		27.4 \pm 2.5		29.5 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		306 \pm 30		301 \pm 30		298 \pm 30	
	RDW-CV %		15.0 \pm 3.0		13.5 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		58.5 \pm 8.0		59.5 \pm 8.0		62.5 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		235 \pm 40		470 \pm 60	
	MPV fL		9.6 \pm 3.0		9.1 \pm 3.0		9.4 \pm 3.0	
	PCT %*		0.046 \pm 0.046		0.214 \pm 0.100		0.439 \pm 0.200	
	PDW*		15.8 \pm 3.0		16.0 \pm 3.0		16.1 \pm 3.0	

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BC-5D

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CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2509B

2025-11-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2509BL	LOT	BC2509BN	LOT	BC2509BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$		3.25 \pm 0.50		7.29 \pm 1.00		17.02 \pm 2.50	
	Neu# $\times 10^9/L$		1.77 \pm 0.33		4.89 \pm 0.73		12.56 \pm 1.71	
	Lym# $\times 10^9/L$		1.27 \pm 0.30		1.84 \pm 0.66		3.08 \pm 1.37	
	Mon# $\times 10^9/L$		0.08 \pm 0.08		0.18 \pm 0.18		0.41 \pm 0.41	
	Eos# $\times 10^9/L$		0.13 \pm 0.12		0.38 \pm 0.37		0.97 \pm 0.85	
	Bas# $\times 10^9/L$		1.78 \pm 0.33		4.89 \pm 0.73		13.50 \pm 1.71	
	Neu%		54.5 \pm 10.0		67.0 \pm 10.0		73.8 \pm 10.0	
	Lym%		39.1 \pm 9.0		25.3 \pm 9.0		18.1 \pm 8.0	
	Mon%		2.5 \pm 2.5		2.5 \pm 2.5		2.4 \pm 2.4	
	Eos%		3.9 \pm 3.5		5.2 \pm 5.0		5.7 \pm 5.0	
	Bas%		54.8 \pm 10.0		67.1 \pm 10.0		79.3 \pm 10.0	
	RBC $\times 10^{12}/L$		2.19 \pm 0.18		3.97 \pm 0.24		4.84 \pm 0.30	
	HGB g/L		60 \pm 4		119 \pm 6		156 \pm 8	
	HCT %		19.4 \pm 1.5		38.5 \pm 2.0		51.0 \pm 2.4	
	MCV fL		88.5 \pm 5.0		96.9 \pm 5.0		105.3 \pm 5.0	
	MCH pg		27.4 \pm 2.5		30.0 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		310 \pm 30		309 \pm 30		306 \pm 30	
	RDW-CV %		15.1 \pm 3.0		14.1 \pm 3.0		13.7 \pm 3.0	
	RDW-SD fL		55.7 \pm 8.0		56.7 \pm 8.0		60.4 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		250 \pm 40		489 \pm 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL		9.9 \pm 3.0		9.6 \pm 3.0		9.8 \pm 3.0	
	PCT %*		0.049 \pm 0.045		0.240 \pm 0.100		0.479 \pm 0.200	
	PDW*		15.8 \pm 3.0		16.2 \pm 3.0		16.3 \pm 3.0	
	WBC $\times 10^9/L$		3.34 \pm 0.50		7.48 \pm 1.00		17.38 \pm 2.50	
	Neu# $\times 10^9/L$		1.65 \pm 0.41		4.37 \pm 0.90		11.57 \pm 2.09	
	Lym# $\times 10^9/L$		1.33 \pm 0.30		2.18 \pm 0.60		3.16 \pm 1.39	
	Mon# $\times 10^9/L$		0.20 \pm 0.20		0.27 \pm 0.27		1.51 \pm 1.51	
	Eos# $\times 10^9/L$		0.13 \pm 0.13		0.57 \pm 0.57		0.97 \pm 0.97	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.09 \pm 0.09		0.17 \pm 0.17	
	Neu%		49.3 \pm 12.0		58.5 \pm 12.0		66.5 \pm 12.0	
	Lym%		39.8 \pm 9.0		29.1 \pm 8.0		18.2 \pm 8.0	
	Mon%		6.0 \pm 6.0		3.6 \pm 3.6		8.7 \pm 8.7	
	Eos%		4.0 \pm 4.0		7.6 \pm 7.6		5.6 \pm 5.6	
	Bas%		0.9 \pm 0.9		1.2 \pm 1.2		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.19 \pm 0.18		4.03 \pm 0.24		4.94 \pm 0.30	
	HGB g/L		60 \pm 4		120 \pm 6		159 \pm 8	
	HCT %		19.2 \pm 1.5		38.0 \pm 2.0		50.0 \pm 2.4	
	MCV fL		87.5 \pm 5.0		94.2 \pm 5.0		101.3 \pm 5.0	
	MCH pg		27.4 \pm 2.5		29.8 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		313 \pm 30		316 \pm 30		318 \pm 30	
	RDW-CV %		18.0 \pm 3.0		16.2 \pm 3.0		15.7 \pm 3.0	
	RDW-SD fL		57.1 \pm 8.0		56.2 \pm 8.0		58.9 \pm 8.0	
	PLT $\times 10^9/L$		52 \pm 20		251 \pm 40		504 \pm 60	
	MPV fL		12.3 \pm 3.0		11.7 \pm 3.0		11.8 \pm 3.0	
	PCT %*		0.064 \pm 0.061		0.294 \pm 0.100		0.595 \pm 0.200	
	PDW*		15.7 \pm 3.0		16.1 \pm 3.0		16.4 \pm 3.0	
	P-LCC $\times 10^9/L$ **		23 \pm 22		93 \pm 25		191 \pm 35	
	P-LCR %**		43.6 \pm 10.0		37.0 \pm 10.0		37.9 \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**BC2509B****2025-11-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2509BL	LOT	BC2509BN	LOT	BC2509BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.20 \pm 0.50		7.40 \pm 1.00		17.30 \pm 2.50	
	Neu# $\times 10^9/L$		1.73 \pm 0.32		4.48 \pm 0.74		11.94 \pm 1.73	
	Lym# $\times 10^9/L$		1.26 \pm 0.29		2.18 \pm 0.67		3.20 \pm 1.56	
	Mon# $\times 10^9/L$		0.08 \pm 0.08		0.19 \pm 0.19		0.43 \pm 0.43	
	Eos# $\times 10^9/L$		0.13 \pm 0.12		0.56 \pm 0.49		1.73 \pm 1.39	
	Neu%		54.0 \pm 10.0		60.5 \pm 10.0		69.0 \pm 10.0	
	Lym%		39.5 \pm 9.0		29.5 \pm 9.0		18.5 \pm 9.0	
	Mon%		2.5 \pm 2.5		2.5 \pm 2.5		2.5 \pm 2.5	
	Eos%		4.0 \pm 3.5		7.5 \pm 6.5		10.0 \pm 8.0	
	RBC $\times 10^{12}/L$		2.19 \pm 0.18		3.96 \pm 0.24		4.81 \pm 0.30	
	HGB g/L		60 \pm 4		117 \pm 6		154 \pm 8	
	HCT %		19.6 \pm 1.5		38.8 \pm 2.0		51.7 \pm 2.4	
	MCV fL		89.5 \pm 5.0		98.0 \pm 5.0		107.5 \pm 5.0	
	MCH pg		27.4 \pm 2.5		29.5 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		306 \pm 30		301 \pm 30		298 \pm 30	
	RDW-CV %		15.0 \pm 3.0		13.5 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		58.5 \pm 8.0		59.5 \pm 8.0		62.5 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		235 \pm 40		470 \pm 60	
	MPV fL		9.6 \pm 3.0		9.1 \pm 3.0		9.4 \pm 3.0	
	PCT %*		0.046 \pm 0.046		0.214 \pm 0.100		0.439 \pm 0.200	
	PDW*		15.8 \pm 3.0		16.0 \pm 3.0		16.1 \pm 3.0	

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