


BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2603B
 **2026-05-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2603BL	LOT	BC2603BN	LOT	BC2603BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.52 \pm 0.50		7.66 \pm 1.00		18.16 \pm 2.50	
	Neu# $\times 10^9/L$		1.69 \pm 0.32		4.31 \pm 0.69		11.46 \pm 1.64	
	Lym# $\times 10^9/L$		1.47 \pm 0.32		2.54 \pm 0.62		4.56 \pm 1.46	
	Mon# $\times 10^9/L$		0.18 \pm 0.15		0.34 \pm 0.24		0.67 \pm 0.55	
	Eos# $\times 10^9/L$		0.14 \pm 0.11		0.39 \pm 0.31		1.29 \pm 0.91	
	Bas# $\times 10^9/L$		0.04 \pm 0.04		0.08 \pm 0.08		0.18 \pm 0.18	
	Neu%		48.1 \pm 9.0		56.4 \pm 9.0		63.1 \pm 9.0	
	Lym%		41.9 \pm 9.0		33.1 \pm 8.0		25.1 \pm 8.0	
	Mon%		5.0 \pm 4.0		4.4 \pm 3.0		3.7 \pm 3.0	
	Eos%		4.0 \pm 3.0		5.1 \pm 4.0		7.1 \pm 5.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.26 \pm 0.18		4.12 \pm 0.24		5.17 \pm 0.30	
	HGB g/L		63 \pm 4		129 \pm 6		174 \pm 8	
	HCT %		19.2 \pm 1.5		39.3 \pm 2.0		53.7 \pm 2.4	
	MCV fL		84.9 \pm 5.0		95.3 \pm 5.0		103.9 \pm 5.0	
	MCH pg		27.9 \pm 2.5		31.3 \pm 2.5		33.7 \pm 2.5	
	MCHC g/L		328 \pm 30		329 \pm 30		324 \pm 30	
	RDW-CV %		16.9 \pm 3.0		14.1 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		51.5 \pm 10.0		48.8 \pm 10.0		52.9 \pm 10.0	
	PLT $\times 10^9/L$		53 \pm 20		247 \pm 40		490 \pm 60	
	MPV fL		8.8 \pm 3.0		9.0 \pm 3.0		9.4 \pm 3.0	
	PCT %*		0.047 \pm 0.047		0.222 \pm 0.100		0.461 \pm 0.200	
	PDW*		15.6 \pm 3.0		15.8 \pm 3.0		15.5 \pm 3.0	
	P-LCC $\times 10^9/L$		13 \pm 13		58 \pm 25		130 \pm 35	
	P-LCR %		23.8 \pm 10.0		23.5 \pm 10.0		26.6 \pm 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.25 \pm 0.50		7.55 \pm 1.00		17.45 \pm 2.50	
	Neu# $\times 10^9/L$		1.71 \pm 0.30		4.38 \pm 0.68		11.26 \pm 1.58	
	Lym# $\times 10^9/L$		1.22 \pm 0.30		2.23 \pm 0.68		3.40 \pm 1.40	
	Mon# $\times 10^9/L$		0.18 \pm 0.13		0.38 \pm 0.31		0.96 \pm 0.70	
	Eos# $\times 10^9/L$		0.15 \pm 0.10		0.57 \pm 0.46		1.83 \pm 1.40	
	Bas# $\times 10^9/L$		0.80 \pm 0.33		2.00 \pm 0.76		5.32 \pm 1.75	
	Neu%		52.5 \pm 9.0		58.0 \pm 9.0		64.5 \pm 9.0	
	Lym%		37.5 \pm 9.0		29.5 \pm 9.0		19.5 \pm 8.0	
	Mon%		5.5 \pm 4.0		5.0 \pm 4.0		5.5 \pm 4.0	
	Eos%		4.5 \pm 3.0		7.5 \pm 6.0		10.5 \pm 8.0	
	Bas%		24.5 \pm 10.0		26.5 \pm 10.0		30.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.18 \pm 0.18		4.07 \pm 0.24		5.14 \pm 0.30	
	HGB g/L		57 \pm 4		119 \pm 6		161 \pm 8	
	HCT %		18.3 \pm 1.5		37.9 \pm 2.0		51.9 \pm 2.4	
	MCV fL		84.0 \pm 5.0		93.0 \pm 5.0		101.0 \pm 5.0	
	MCH pg		26.1 \pm 2.5		29.2 \pm 2.5		31.3 \pm 2.5	
	MCHC g/L		311 \pm 30		314 \pm 30		310 \pm 30	
	RDW-CV %		16.5 \pm 3.0		14.0 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		51.0 \pm 8.0		49.0 \pm 8.0		52.0 \pm 8.0	
	PLT $\times 10^9/L$		53 \pm 20		246 \pm 40		493 \pm 60	
	MPV fL		11.8 \pm 3.0		11.9 \pm 3.0		12.1 \pm 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2603BL	LOT	BC2603BN	LOT	BC2603BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.32 \pm 0.50		7.65 \pm 1.00		17.77 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.74 \pm 0.30		4.46 \pm 0.69		11.43 \pm 1.60	
QC Mode	Lym# $\times 10^9/L$		1.28 \pm 0.30		2.33 \pm 0.62		3.59 \pm 1.43	
	Mon# $\times 10^9/L$		0.15 \pm 0.14		0.32 \pm 0.31		0.87 \pm 0.71	
	Eos# $\times 10^9/L$		0.15 \pm 0.13		0.54 \pm 0.38		1.88 \pm 1.42	
	Bas# $\times 10^9/L$		0.83 \pm 0.34		2.04 \pm 0.77		5.42 \pm 1.78	
	Neu%		52.3 \pm 9.0		58.3 \pm 9.0		64.3 \pm 9.0	
	Lym%		38.6 \pm 9.0		30.4 \pm 8.0		20.2 \pm 8.0	
	Mon%		4.5 \pm 4.0		4.2 \pm 4.0		4.9 \pm 4.0	
	Eos%		4.6 \pm 4.0		7.1 \pm 5.0		10.6 \pm 8.0	
	Bas%		24.9 \pm 10.0		26.7 \pm 10.0		30.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.19 \pm 0.18		4.05 \pm 0.24		5.10 \pm 0.30	
	HGB g/L		59 \pm 4		120 \pm 6		164 \pm 8	
	HCT %		18.2 \pm 1.5		38.1 \pm 2.0		52.3 \pm 2.4	
	MCV fL		83.2 \pm 5.0		94.1 \pm 5.0		102.6 \pm 5.0	
	MCH pg		26.9 \pm 2.5		29.6 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		324 \pm 30		315 \pm 30		313 \pm 30	
	RDW-CV %		17.1 \pm 3.0		14.7 \pm 3.0		14.4 \pm 3.0	
	RDW-SD fL		49.9 \pm 8.0		48.2 \pm 8.0		51.7 \pm 8.0	
	PLT $\times 10^9/L$		47 \pm 20		237 \pm 40		490 \pm 60	
	MPV fL		10.2 \pm 3.0		9.7 \pm 3.0		10.0 \pm 3.0	
	PCT %*		0.048 \pm 0.048		0.230 \pm 0.100		0.490 \pm 0.200	
	PDW*		15.0 \pm 3.0		15.9 \pm 3.0		15.6 \pm 3.0	
	P-LCC $\times 10^9/L$		12 \pm 12		54 \pm 25		122 \pm 35	
	P-LCR %		25.6 \pm 10.0		22.7 \pm 10.0		24.8 \pm 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.28 \pm 0.50		7.56 \pm 1.00		17.56 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.73 \pm 0.33		4.51 \pm 0.76		11.57 \pm 1.76	
QC Mode	Lym# $\times 10^9/L$		1.35 \pm 0.30		2.44 \pm 0.68		3.71 \pm 1.41	
	Mon# $\times 10^9/L$		0.07 \pm 0.07		0.11 \pm 0.11		0.40 \pm 0.40	
	Eos# $\times 10^9/L$		0.13 \pm 0.10		0.50 \pm 0.38		1.88 \pm 1.41	
	Bas# $\times 10^9/L$		1.86 \pm 0.33		4.96 \pm 0.76		13.71 \pm 1.76	
	Neu%		52.7 \pm 10.0		59.6 \pm 10.0		65.9 \pm 10.0	
	Lym%		41.3 \pm 9.0		32.3 \pm 9.0		21.1 \pm 8.0	
	Mon%		2.0 \pm 2.0		1.5 \pm 1.5		2.3 \pm 2.3	
	Eos%		4.0 \pm 3.0		6.6 \pm 5.0		10.7 \pm 8.0	
	Bas%		56.8 \pm 10.0		65.6 \pm 10.0		78.1 \pm 10.0	
	RBC $\times 10^{12}/L$		2.21 \pm 0.18		4.06 \pm 0.24		5.11 \pm 0.30	
	HGB g/L		59 \pm 4		120 \pm 6		163 \pm 8	
	HCT %		18.7 \pm 1.5		38.9 \pm 2.0		53.2 \pm 2.4	
	MCV fL		84.8 \pm 5.0		95.8 \pm 5.0		104.2 \pm 5.0	
	MCH pg		26.7 \pm 2.5		29.6 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		315 \pm 30		309 \pm 30		306 \pm 30	
	RDW-CV %		17.1 \pm 3.0		14.4 \pm 3.0		14.3 \pm 3.0	
	RDW-SD fL		59.4 \pm 8.0		58.2 \pm 8.0		62.2 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		244 \pm 40		491 \pm 60	
	MPV fL		9.5 \pm 3.0		9.2 \pm 3.0		9.5 \pm 3.0	
	PCT %*		0.047 \pm 0.047		0.224 \pm 0.100		0.466 \pm 0.200	
	PDW*		15.0 \pm 3.0		15.9 \pm 3.0		15.6 \pm 3.0	

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LOT

BC2603B



2026-05-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2603BL	LOT	BC2603BN	LOT	BC2603BH	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	WBC $\times 10^9/L$		3.39 \pm 0.50		7.53 \pm 1.00		17.56 \pm 2.50	
	Neu# $\times 10^9/L$		1.68 \pm 0.41		4.36 \pm 0.91		10.95 \pm 2.11	
	Lym# $\times 10^9/L$		1.42 \pm 0.31		2.36 \pm 0.61		3.48 \pm 1.41	
	Mon# $\times 10^9/L$		0.08 \pm 0.08		0.23 \pm 0.23		0.93 \pm 0.93	
	Eos# $\times 10^9/L$		0.18 \pm 0.18		0.50 \pm 0.50		1.88 \pm 1.88	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.32 \pm 0.32	
	Neu%		49.5 \pm 12.0		57.8 \pm 12.0		62.4 \pm 12.0	
	Lym%		41.9 \pm 9.0		31.4 \pm 8.0		19.8 \pm 8.0	
	Mon%		2.5 \pm 2.5		3.1 \pm 3.1		5.3 \pm 5.3	
	Eos%		5.2 \pm 5.2		6.6 \pm 6.6		10.7 \pm 10.7	
	Bas%		0.9 \pm 0.9		1.1 \pm 1.1		1.8 \pm 1.8	
	RBC $\times 10^{12}/L$		2.21 \pm 0.18		4.12 \pm 0.24		5.19 \pm 0.30	
	HGB g/L		59 \pm 4		122 \pm 6		167 \pm 8	
	HCT %		18.6 \pm 1.5		38.4 \pm 2.0		51.7 \pm 2.4	
	MCV fL		84.1 \pm 5.0		93.1 \pm 5.0		99.7 \pm 5.0	
	MCH pg		26.7 \pm 2.5		29.6 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		317 \pm 30		318 \pm 30		323 \pm 30	
	RDW-CV %		20.8 \pm 3.0		16.9 \pm 3.0		16.7 \pm 3.0	
	RDW-SD fL		62.9 \pm 8.0		58.0 \pm 8.0		61.0 \pm 8.0	
	PLT $\times 10^9/L$		51 \pm 20		243 \pm 40		493 \pm 60	
	MPV fL		12.0 \pm 3.0		11.2 \pm 3.0		11.5 \pm 3.0	
	PCT %*		0.061 \pm 0.061		0.272 \pm 0.100		0.567 \pm 0.200	
	PDW*		15.1 \pm 3.0		15.9 \pm 3.0		15.8 \pm 3.0	
	P-LCC $\times 10^9/L$ **		21 \pm 21		82 \pm 25		180 \pm 35	
	P-LCR %**		42.1 \pm 10.0		33.7 \pm 10.0		36.6 \pm 10.0	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.28 \pm 0.50		7.56 \pm 1.00		17.56 \pm 2.50	
	Neu# $\times 10^9/L$		1.73 \pm 0.33		4.51 \pm 0.76		11.57 \pm 1.76	
	Lym# $\times 10^9/L$		1.35 \pm 0.30		2.44 \pm 0.68		3.71 \pm 1.41	
	Mon# $\times 10^9/L$		0.07 \pm 0.07		0.11 \pm 0.11		0.40 \pm 0.40	
	Eos# $\times 10^9/L$		0.13 \pm 0.10		0.50 \pm 0.38		1.88 \pm 1.41	
	Neu%		52.7 \pm 10.0		59.6 \pm 10.0		65.9 \pm 10.0	
	Lym%		41.3 \pm 9.0		32.3 \pm 9.0		21.1 \pm 8.0	
	Mon%		2.0 \pm 2.0		1.5 \pm 1.5		2.3 \pm 2.3	
	Eos%		4.0 \pm 3.0		6.6 \pm 5.0		10.7 \pm 8.0	
	RBC $\times 10^{12}/L$		2.21 \pm 0.18		4.06 \pm 0.24		5.11 \pm 0.30	
	HGB g/L		59 \pm 4		120 \pm 6		163 \pm 8	
	HCT %		18.7 \pm 1.5		38.9 \pm 2.0		53.2 \pm 2.4	
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	MCH pg		26.7 \pm 2.5		29.6 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		315 \pm 30		309 \pm 30		306 \pm 30	
	RDW-CV %		17.1 \pm 3.0		14.4 \pm 3.0		14.3 \pm 3.0	
	RDW-SD fL		59.4 \pm 8.0		58.2 \pm 8.0		62.2 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		244 \pm 40		491 \pm 60	
	MPV fL		9.5 \pm 3.0		9.2 \pm 3.0		9.5 \pm 3.0	
	PCT %*		0.047 \pm 0.047		0.224 \pm 0.100		0.466 \pm 0.200	
	PDW*		15.0 \pm 3.0		15.9 \pm 3.0		15.6 \pm 3.0	

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

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Mindray

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China

Tel: +86 755 81888998

Fax: +86 755 26582680

EC

REP

Shanghai International Holding Corp. GmbH (Europe)

Eiffestraße 80 20537 Hamburg, Germany

Tel: 0049-40-2513175

Fax: 0049-40-255726