

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2605B



2026-07-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2605BL	LOT	BC2605BN	LOT	BC2605BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.37 \pm 0.50		7.80 \pm 1.00		18.37 \pm 2.50	
	Neu# $\times 10^9/L$		1.63 \pm 0.31		4.35 \pm 0.71		11.64 \pm 1.66	
	Lym# $\times 10^9/L$		1.36 \pm 0.31		2.53 \pm 0.63		4.30 \pm 1.47	
	Mon# $\times 10^9/L$		0.20 \pm 0.14		0.38 \pm 0.24		0.73 \pm 0.55	
	Eos# $\times 10^9/L$		0.15 \pm 0.14		0.46 \pm 0.32		1.52 \pm 1.10	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.18 \pm 0.18	
	Neu%		48.4 \pm 9.0		55.8 \pm 9.0		63.3 \pm 9.0	
	Lym%		40.4 \pm 9.0		32.4 \pm 8.0		23.4 \pm 8.0	
	Mon%		5.8 \pm 4.0		4.9 \pm 3.0		4.0 \pm 3.0	
	Eos%		4.4 \pm 4.0		5.9 \pm 4.0		8.3 \pm 6.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.29 \pm 0.18		4.08 \pm 0.24		5.07 \pm 0.30	
	HGB g/L		63 \pm 4		128 \pm 6		170 \pm 8	
	HCT %		19.4 \pm 1.5		38.9 \pm 2.0		52.4 \pm 2.4	
	MCV fL		84.7 \pm 5.0		95.3 \pm 5.0		103.3 \pm 5.0	
	MCH pg		27.5 \pm 2.5		31.4 \pm 2.5		33.5 \pm 2.5	
	MCHC g/L		325 \pm 30		329 \pm 30		325 \pm 30	
	RDW-CV %		16.5 \pm 3.0		13.8 \pm 3.0		14.3 \pm 3.0	
	RDW-SD fL		50.0 \pm 10.0		49.4 \pm 10.0		53.0 \pm 10.0	
	PLT $\times 10^9/L$		60 \pm 20		255 \pm 40		502 \pm 60	
	MPV fL		8.7 \pm 3.0		8.8 \pm 3.0		9.0 \pm 3.0	
	PCT %*		0.052 \pm 0.052		0.224 \pm 0.100		0.452 \pm 0.200	
	PDW*		16.7 \pm 3.0		16.0 \pm 3.0		16.1 \pm 3.0	
	P-LCC $\times 10^9/L$		15 \pm 15		58 \pm 25		118 \pm 35	
	P-LCR %		25.8 \pm 10.0		22.7 \pm 10.0		23.5 \pm 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.15 \pm 0.50		7.60 \pm 1.00		17.50 \pm 2.50	
	Neu# $\times 10^9/L$		1.65 \pm 0.29		4.41 \pm 0.69		11.46 \pm 1.58	
	Lym# $\times 10^9/L$		1.17 \pm 0.29		2.28 \pm 0.69		3.41 \pm 1.40	
	Mon# $\times 10^9/L$		0.17 \pm 0.13		0.34 \pm 0.23		0.88 \pm 0.71	
	Eos# $\times 10^9/L$		0.16 \pm 0.13		0.57 \pm 0.46		1.75 \pm 1.40	
	Bas# $\times 10^9/L$		0.79 \pm 0.32		2.05 \pm 0.76		5.25 \pm 1.75	
	Neu%		52.5 \pm 9.0		58.0 \pm 9.0		65.5 \pm 9.0	
	Lym%		37.0 \pm 9.0		30.0 \pm 9.0		19.5 \pm 8.0	
	Mon%		5.5 \pm 4.0		4.5 \pm 3.0		5.0 \pm 4.0	
	Eos%		5.0 \pm 4.0		7.5 \pm 6.0		10.0 \pm 8.0	
	Bas%		25.0 \pm 10.0		27.0 \pm 10.0		30.0 \pm 10.0	
	RBC $\times 10^{12}/L$		2.22 \pm 0.18		4.00 \pm 0.24		5.03 \pm 0.30	
	HGB g/L		58 \pm 4		118 \pm 6		158 \pm 8	
	HCT %		18.6 \pm 1.5		37.4 \pm 2.0		50.6 \pm 2.4	
	MCV fL		84.0 \pm 5.0		93.5 \pm 5.0		100.5 \pm 5.0	
	MCH pg		26.1 \pm 2.5		29.5 \pm 2.5		31.4 \pm 2.5	
	MCHC g/L		311 \pm 30		316 \pm 30		313 \pm 30	
	RDW-CV %		16.5 \pm 3.0		14.0 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		51.0 \pm 8.0		49.0 \pm 8.0		50.0 \pm 8.0	
	PLT $\times 10^9/L$		62 \pm 20		249 \pm 40		495 \pm 60	
	MPV fL		12.0 \pm 3.0		11.7 \pm 3.0		11.7 \pm 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2605BL	LOT	BC2605BN	LOT	BC2605BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.18 \pm 0.50		7.69 \pm 1.00		17.63 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.66 \pm 0.29		4.48 \pm 0.70		11.42 \pm 1.59	
QC Mode	Lym# $\times 10^9/L$		1.19 \pm 0.29		2.33 \pm 0.62		3.67 \pm 1.42	
	Mon# $\times 10^9/L$		0.17 \pm 0.13		0.33 \pm 0.23		0.74 \pm 0.53	
	Eos# $\times 10^9/L$		0.16 \pm 0.13		0.55 \pm 0.46		1.80 \pm 1.42	
	Bas# $\times 10^9/L$		0.80 \pm 0.32		2.08 \pm 0.77		5.34 \pm 1.77	
	Neu%		52.2 \pm 9.0		58.2 \pm 9.0		64.8 \pm 9.0	
	Lym%		37.4 \pm 9.0		30.3 \pm 8.0		20.8 \pm 8.0	
	Mon%		5.4 \pm 4.0		4.3 \pm 3.0		4.2 \pm 3.0	
	Eos%		5.0 \pm 4.0		7.2 \pm 6.0		10.2 \pm 8.0	
	Bas%		25.2 \pm 10.0		27.1 \pm 10.0		30.3 \pm 10.0	
	RBC $\times 10^{12}/L$		2.23 \pm 0.18		4.01 \pm 0.24		5.00 \pm 0.30	
	HGB g/L		59 \pm 4		119 \pm 6		158 \pm 8	
	HCT %		18.5 \pm 1.5		37.8 \pm 2.0		51.0 \pm 2.4	
	MCV fL		83.0 \pm 5.0		94.2 \pm 5.0		101.9 \pm 5.0	
	MCH pg		26.5 \pm 2.5		29.7 \pm 2.5		31.6 \pm 2.5	
	MCHC g/L		319 \pm 30		315 \pm 30		310 \pm 30	
	RDW-CV %		16.8 \pm 3.0		14.4 \pm 3.0		14.6 \pm 3.0	
	RDW-SD fL		49.5 \pm 8.0		48.2 \pm 8.0		51.6 \pm 8.0	
	PLT $\times 10^9/L$		54 \pm 20		243 \pm 40		489 \pm 60	
	MPV fL		10.0 \pm 3.0		9.7 \pm 3.0		9.6 \pm 3.0	
	PCT %*		0.054 \pm 0.054		0.236 \pm 0.100		0.469 \pm 0.200	
	PDW*		16.4 \pm 3.0		16.1 \pm 3.0		16.1 \pm 3.0	
	P-LCC $\times 10^9/L$		15 \pm 15		54 \pm 25		111 \pm 35	
	P-LCR %		28.3 \pm 10.0		22.3 \pm 10.0		22.8 \pm 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.18 \pm 0.50		7.61 \pm 1.00		17.48 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.68 \pm 0.29		4.49 \pm 0.69		11.52 \pm 1.58	
QC Mode	Lym# $\times 10^9/L$		1.28 \pm 0.29		2.46 \pm 0.69		3.81 \pm 1.40	
	Mon# $\times 10^9/L$		0.05 \pm 0.12		0.11 \pm 0.37		0.26 \pm 1.04	
	Eos# $\times 10^9/L$		0.17 \pm 0.13		0.55 \pm 0.39		1.89 \pm 1.40	
	Bas# $\times 10^9/L$		1.82 \pm 0.32		5.06 \pm 0.76		13.62 \pm 1.75	
	Neu%		52.9 \pm 9.0		59.0 \pm 9.0		65.9 \pm 9.0	
	Lym%		40.1 \pm 9.0		32.3 \pm 9.0		21.8 \pm 8.0	
	Mon%		1.7 \pm 4.0		1.5 \pm 5.0		1.5 \pm 6.0	
	Eos%		5.3 \pm 4.0		7.2 \pm 5.0		10.8 \pm 8.0	
	Bas%		57.1 \pm 10.0		66.5 \pm 10.0		77.9 \pm 10.0	
	RBC $\times 10^{12}/L$		2.25 \pm 0.18		4.01 \pm 0.24		5.00 \pm 0.30	
	HGB g/L		59 \pm 4		119 \pm 6		158 \pm 8	
	HCT %		19.1 \pm 1.5		38.3 \pm 2.0		51.5 \pm 2.4	
	MCV fL		84.9 \pm 5.0		95.4 \pm 5.0		102.9 \pm 5.0	
	MCH pg		26.2 \pm 2.5		29.7 \pm 2.5		31.6 \pm 2.5	
	MCHC g/L		309 \pm 30		311 \pm 30		307 \pm 30	
	RDW-CV %		16.7 \pm 3.0		14.4 \pm 3.0		15.1 \pm 3.0	
	RDW-SD fL		59.0 \pm 10.0		58.0 \pm 10.0		64.1 \pm 10.0	
	PLT $\times 10^9/L$		56 \pm 20		250 \pm 40		489 \pm 60	
	MPV fL		9.2 \pm 3.0		9.1 \pm 3.0		9.1 \pm 3.0	
	PCT %*		0.052 \pm 0.052		0.228 \pm 0.100		0.445 \pm 0.200	
	PDW*		16.3 \pm 3.0		16.0 \pm 3.0		16.1 \pm 3.0	

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