

BC-5D

HEMATOLOGY CONTROLS

CONTROL

REVISED 2026-06-12

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

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

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2605BL	LOT	BC2605BN	LOT	BC2605BH	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	WBC $\times 10^9/L$		3.26 $\pm$ 0.50		7.65 $\pm$ 1.00		17.68 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.62 $\pm$ 0.40		4.28 $\pm$ 0.92		11.23 $\pm$ 2.13	
	Lym# $\times 10^9/L$		1.30 $\pm$ 0.30		2.40 $\pm$ 0.62		3.64 $\pm$ 1.42	
	Mon# $\times 10^9/L$		0.13 $\pm$ 0.13		0.31 $\pm$ 0.31		0.67 $\pm$ 0.67	
	Eos# $\times 10^9/L$		0.18 $\pm$ 0.18		0.57 $\pm$ 0.57		1.82 $\pm$ 1.82	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.09 $\pm$ 0.09		0.32 $\pm$ 0.32	
	Neu%		49.6 $\pm$ 12.0		55.8 $\pm$ 12.0		63.5 $\pm$ 12.0	
	Lym%		40.0 $\pm$ 9.0		31.4 $\pm$ 8.0		20.6 $\pm$ 8.0	
	Mon%		4.1 $\pm$ 4.1		4.1 $\pm$ 4.1		3.8 $\pm$ 3.8	
	Eos%		5.4 $\pm$ 5.4		7.5 $\pm$ 7.5		10.3 $\pm$ 10.3	
	Bas%		0.9 $\pm$ 0.9		1.2 $\pm$ 1.2		1.8 $\pm$ 1.8	
	RBC $\times 10^{12}/L$		2.25 $\pm$ 0.18		4.08 $\pm$ 0.24		5.09 $\pm$ 0.30	
	HGB g/L		60 $\pm$ 4		122 $\pm$ 6		163 $\pm$ 8	
	HCT %		19.0 $\pm$ 1.5		38.2 $\pm$ 2.0		49.9 $\pm$ 2.4	
	MCV fL		84.3 $\pm$ 5.0		93.6 $\pm$ 5.0		98.1 $\pm$ 5.0	
	MCH pg		26.7 $\pm$ 2.5		29.9 $\pm$ 2.5		32.0 $\pm$ 2.5	
	MCHC g/L		316 $\pm$ 30		319 $\pm$ 30		326 $\pm$ 30	
	RDW-CV %		20.3 $\pm$ 3.0		17.1 $\pm$ 3.0		16.3 $\pm$ 3.0	
	RDW-SD fL		62.4 $\pm$ 10.0		58.2 $\pm$ 10.0		60.2 $\pm$ 10.0	
	PLT $\times 10^9/L$		58 $\pm$ 20		252 $\pm$ 40		507 $\pm$ 60	
	MPV fL		11.1 $\pm$ 3.0		11.0 $\pm$ 3.0		10.9 $\pm$ 3.0	
	PCT %*		0.064 $\pm$ 0.064		0.277 $\pm$ 0.100		0.553 $\pm$ 0.200	
	PDW*		16.0 $\pm$ 3.0		16.0 $\pm$ 3.0		16.3 $\pm$ 3.0	
	P-LCC $\times 10^9/L$ **		21 $\pm$ 21		85 $\pm$ 25		163 $\pm$ 35	
	P-LCR %**		36.5 $\pm$ 10.0		33.6 $\pm$ 10.0		32.2 $\pm$ 10.0	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.18 $\pm$ 0.50		7.61 $\pm$ 1.00		17.48 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.68 $\pm$ 0.29		4.49 $\pm$ 0.69		11.52 $\pm$ 1.58	
	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	
	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	
	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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** These parameters are not provided on BC-5000/BC-5000 Vet analyzers

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