

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC1805B**2018-07-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC1805BL	LOT	BC1805BN	LOT	BC1805BH	
BC-5800,BC-5600	WBC $\times 10^9/L$	3.45	± 0.50	8.25	± 1.00	19.25	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.69	± 0.32	4.58	± 0.67	12.22	± 1.54	
	Lym# $\times 10^9/L$	1.31	± 0.32	2.48	± 0.67	3.75	± 1.54	
	Mon# $\times 10^9/L$	0.28	± 0.25	0.62	± 0.50	1.44	± 1.16	
	Eos# $\times 10^9/L$	0.14	± 0.11	0.50	± 0.42	1.64	± 1.36	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.19	± 0.19	
	Neu%	49.0	± 9.0	55.5	± 8.0	63.5	± 8.0	
	Lym%	38.0	± 9.0	30.0	± 8.0	19.5	± 8.0	
	Mon%	8.0	± 7.0	7.5	± 6.0	7.5	± 6.0	
	Eos%	4.0	± 3.0	6.0	± 5.0	8.5	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.10	± 0.18	4.06	± 0.24	5.08	± 0.30	
	HGB g/L	61	± 4	129	± 6	165	± 8	
	HCT %	18.5	± 1.5	39.2	± 2.0	50.8	± 2.4	
	MCV fL	88.0	± 5.0	96.5	± 5.0	100.0	± 5.0	
	MCH pg	29.0	± 2.5	31.8	± 2.5	32.5	± 2.5	
	MCHC g/L	330	± 30	329	± 30	325	± 30	
	RDW-CV %	14.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	41.5	± 8.0	45.0	± 8.0	45.5	± 8.0	
	PLT $\times 10^9/L$	48	± 20	249	± 40	510	± 60	
	MPV fL	7.6	± 3.0	8.2	± 3.0	7.7	± 3.0	
	PCT %*	0.050	± 0.050	0.204	± 0.100	0.396	± 0.200	
	PDW*	15.5	± 3.0	16.3	± 3.0	15.2	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	55	± 25	82	± 35	
	P-LCR %	15.0	± 10.0	22.0	± 10.0	16.0	± 10.0	
BC-5500,BC-5200	WBC $\times 10^9/L$	3.30	± 0.50	7.90	± 1.00	18.20	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.63	± 0.30	4.38	± 0.64	11.38	± 1.46	
	Lym# $\times 10^9/L$	1.24	± 0.30	2.33	± 0.64	3.64	± 1.46	
	Mon# $\times 10^9/L$	0.25	± 0.20	0.59	± 0.48	1.37	± 1.10	
	Eos# $\times 10^9/L$	0.15	± 0.14	0.51	± 0.40	1.64	± 1.28	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	49.5	± 9.0	55.5	± 8.0	62.5	± 8.0	
	Lym%	37.5	± 9.0	29.5	± 8.0	20.0	± 8.0	
	Mon%	7.5	± 6.0	7.5	± 6.0	7.5	± 6.0	
	Eos%	4.5	± 4.0	6.5	± 5.0	9.0	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.12	± 0.18	4.12	± 0.24	5.00	± 0.30	
	HGB g/L	64	± 4	137	± 6	176	± 8	
	HCT %	17.6	± 1.5	37.5	± 2.0	47.5	± 2.4	
	MCV fL	83.0	± 5.0	91.0	± 5.0	95.0	± 5.0	
	MCH pg	30.2	± 2.5	33.3	± 2.5	35.2	± 2.5	
	MCHC g/L	364	± 30	365	± 30	371	± 30	
	RDW-CV %	11.0	± 3.0	11.0	± 3.0	11.0	± 3.0	
	RDW-SD fL	28.5	± 8.0	33.0	± 8.0	36.5	± 8.0	
	PLT $\times 10^9/L$	50	± 20	245	± 40	480	± 70	
	MPV fL	8.0	± 3.0	8.7	± 3.0	8.3	± 3.0	
	PCT %*	0.050	± 0.050	0.215	± 0.100	0.390	± 0.200	
	PDW*	16.3	± 3.0	16.7	± 3.0	15.5	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC1805BL	LOT	BC1805BN	LOT	BC1805BH	
BC-5390	WBC ×10 ⁹ /L		3.20 ± 0.50		8.00 ± 1.00		18.30 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.65 ± 0.29		4.56 ± 0.64		11.80 ± 1.65	
	Lym# ×10 ⁹ /L		1.15 ± 0.29		2.36 ± 0.64		3.66 ± 1.29	
	Mon# ×10 ⁹ /L		0.27 ± 0.23		0.56 ± 0.48		1.10 ± 0.92	
	Eos# ×10 ⁹ /L		0.13 ± 0.10		0.52 ± 0.40		1.74 ± 1.47	
	Bas# ×10 ⁹ /L		0.77 ± 0.32		2.14 ± 0.81		5.60 ± 1.84	
	Neu%		51.5 ± 9.0		57.0 ± 8.0		64.5 ± 9.0	
	Lym%		36.0 ± 9.0		29.5 ± 8.0		20.0 ± 7.0	
	Mon%		8.5 ± 7.0		7.0 ± 6.0		6.0 ± 5.0	
	Eos%		4.0 ± 3.0		6.5 ± 5.0		9.5 ± 8.0	
	Bas%		24.2 ± 10.0		26.7 ± 10.0		30.6 ± 10.0	
	RBC ×10 ¹² /L		2.03 ± 0.18		3.98 ± 0.24		5.03 ± 0.30	
	HGB g/L		56 ± 4		120 ± 6		155 ± 8	
	HCT %		17.5 ± 1.5		37.2 ± 2.0		48.8 ± 2.4	
	MCV fL		86.0 ± 5.0		93.5 ± 5.0		97.0 ± 5.0	
	MCH pg		27.6 ± 2.5		30.2 ± 2.5		30.8 ± 2.5	
	MCHC g/L		321 ± 30		322 ± 30		318 ± 30	
	RDW-CV %		13.5 ± 3.0		13.0 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		44.0 ± 8.0		47.5 ± 8.0		47.0 ± 8.0	
	PLT ×10 ⁹ /L		47 ± 20		236 ± 40		486 ± 60	
	MPV fL		10.3 ± 3.0		11.0 ± 3.0		10.2 ± 3.0	
BC-5390 CRP	WBC ×10 ⁹ /L		3.30 ± 0.50		8.00 ± 1.00		18.60 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.72 ± 0.30		4.60 ± 0.64		12.18 ± 1.68	
	Lym# ×10 ⁹ /L		1.19 ± 0.30		2.32 ± 0.64		3.44 ± 1.31	
	Mon# ×10 ⁹ /L		0.23 ± 0.20		0.52 ± 0.40		1.12 ± 0.94	
	Eos# ×10 ⁹ /L		0.17 ± 0.14		0.56 ± 0.48		1.86 ± 1.49	
	Bas# ×10 ⁹ /L		0.81 ± 0.34		2.16 ± 0.80		5.77 ± 1.87	
	Neu%		52.0 ± 9.0		57.5 ± 8.0		65.5 ± 9.0	
	Lym%		36.0 ± 9.0		29.0 ± 8.0		18.5 ± 7.0	
	Mon%		7.0 ± 6.0		6.5 ± 5.0		6.0 ± 5.0	
	Eos%		5.0 ± 4.0		7.0 ± 6.0		10.0 ± 8.0	
	Bas%		24.5 ± 10.0		27.0 ± 10.0		31.0 ± 10.0	
	RBC ×10 ¹² /L		2.06 ± 0.18		4.04 ± 0.24		5.03 ± 0.30	
	HGB g/L		58 ± 4		120 ± 6		155 ± 8	
	HCT %		17.3 ± 1.5		37.8 ± 2.0		48.8 ± 2.4	
	MCV fL		84.0 ± 5.0		93.5 ± 5.0		97.0 ± 5.0	
	MCH pg		28.2 ± 2.5		29.7 ± 2.5		30.8 ± 2.5	
	MCHC g/L		335 ± 30		318 ± 30		318 ± 30	
	RDW-CV %		14.0 ± 3.0		14.0 ± 3.0		14.0 ± 3.0	
	RDW-SD fL		42.0 ± 8.0		46.0 ± 8.0		47.0 ± 8.0	
	PLT ×10 ⁹ /L		42 ± 20		232 ± 40		490 ± 60	
	MPV fL		8.1 ± 3.0		8.4 ± 3.0		7.8 ± 3.0	
	PCT %*		0.050 ± 0.050		0.200 ± 0.100		0.380 ± 0.200	
	PDW*		15.2 ± 3.0		16.3 ± 3.0		15.2 ± 3.0	
	P-LCC ×10 ⁹ /L		15 ± 15		46 ± 25		69 ± 35	
	P-LCR %		13.0 ± 10.0		20.0 ± 10.0		14.0 ± 10.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC1805BL	LOT	BC1805BN	LOT	BC1805BH	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.35 ± 0.50		8.10 ± 1.00		18.80 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.79 ± 0.31		4.78 ± 0.65		12.50 ± 1.51	
QC Mode	Lym# ×10 ⁹ /L		1.23 ± 0.31		2.32 ± 0.65		3.48 ± 1.51	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.18 ± 0.17		0.45 ± 0.41		1.03 ± 0.94	
	Eos# ×10 ⁹ /L		0.15 ± 0.14		0.55 ± 0.41		1.79 ± 1.51	
	Bas# ×10 ⁹ /L		1.70 ± 0.34		5.16 ± 0.82		14.48 ± 1.89	
	Neu%		53.3 ± 9.0		59.0 ± 8.0		66.5 ± 8.0	
	Lym%		36.7 ± 9.0		28.7 ± 8.0		18.5 ± 8.0	
	Mon%		5.5 ± 5.0		5.5 ± 5.0		5.5 ± 5.0	
	Eos%		4.5 ± 4.0		6.8 ± 5.0		9.5 ± 8.0	
	Bas%		50.7 ± 10.0		63.7 ± 10.0		77.0 ± 10.0	
	RBC ×10 ¹² /L		2.08 ± 0.18		4.05 ± 0.24		5.05 ± 0.30	
	HGB g/L		57 ± 4		120 ± 6		155 ± 8	
	HCT %		18.8 ± 1.5		40.3 ± 2.0		51.5 ± 2.4	
	MCV fL		90.5 ± 5.0		99.5 ± 5.0		102.0 ± 5.0	
	MCH pg		27.4 ± 2.5		29.6 ± 2.5		30.7 ± 2.5	
	MCHC g/L		303 ± 30		298 ± 30		301 ± 30	
	RDW-CV %		14.0 ± 3.0		13.5 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		55.5 ± 8.0		60.0 ± 8.0		58.8 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		230 ± 40		481 ± 60	
	MPV fL		7.8 ± 3.0		8.4 ± 3.0		7.9 ± 3.0	
	PCT %*		0.050 ± 0.050		0.194 ± 0.100		0.377 ± 0.200	
	PDW*		15.7 ± 3.0		16.4 ± 3.0		15.5 ± 3.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.35 ± 0.50		8.05 ± 1.00		18.55 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.78 ± 0.31		4.75 ± 0.65		12.24 ± 1.49	
QC Mode	Lym# ×10 ⁹ /L		1.24 ± 0.31		2.33 ± 0.65		3.43 ± 1.49	
(Software version 1.24.00.16860 or higher)	Mon# ×10 ⁹ /L		0.18 ± 0.17		0.44 ± 0.40		1.02 ± 0.93	
	Eos# ×10 ⁹ /L		0.15 ± 0.14		0.52 ± 0.40		1.86 ± 1.49	
	Bas# ×10 ⁹ /L		1.88 ± 0.34		5.32 ± 0.81		14.47 ± 1.86	
	Neu%		53.0 ± 9.0		59.0 ± 8.0		66.0 ± 8.0	
	Lym%		37.0 ± 9.0		29.0 ± 8.0		18.5 ± 8.0	
	Mon%		5.5 ± 5.0		5.5 ± 5.0		5.5 ± 5.0	
	Eos%		4.5 ± 4.0		6.5 ± 5.0		10.0 ± 8.0	
	Bas%		56.1 ± 10.0		66.1 ± 10.0		78.0 ± 10.0	
	RBC ×10 ¹² /L		2.07 ± 0.18		4.04 ± 0.24		5.05 ± 0.30	
	HGB g/L		58 ± 4		121 ± 6		156 ± 8	
	HCT %		18.2 ± 1.5		39.0 ± 2.0		50.5 ± 2.4	
	MCV fL		88.0 ± 5.0		96.5 ± 5.0		100.0 ± 5.0	
	MCH pg		28.0 ± 2.5		30.0 ± 2.5		30.9 ± 2.5	
	MCHC g/L		318 ± 30		310 ± 30		309 ± 30	
	RDW-CV %		14.0 ± 3.0		13.5 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		51.0 ± 8.0		55.5 ± 8.0		55.0 ± 8.0	
	PLT ×10 ⁹ /L		47 ± 20		234 ± 40		484 ± 60	
	MPV fL		8.0 ± 3.0		8.6 ± 3.0		7.9 ± 3.0	
	PCT %*		0.050 ± 0.050		0.200 ± 0.100		0.382 ± 0.200	
	PDW*		15.4 ± 3.0		16.2 ± 3.0		15.2 ± 3.0	

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Instrument	Parameter	Low		Normal		High		++++
		LOT	BC1805BL	LOT	BC1805BN	LOT	BC1805BH	
BC-5000,BC-5150,BC-5120	WBC ×10 ⁹ /L		3.20 ± 0.50		7.80 ± 1.00		18.25 ± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# ×10 ⁹ /L		1.57 ± 0.39		4.31 ± 0.94		11.32 ± 2.20	
QC Mode	Lym# ×10 ⁹ /L		1.16 ± 0.29		2.18 ± 0.63		3.36 ± 1.28	
	Mon# ×10 ⁹ /L		0.30 ± 0.30		0.71 ± 0.71		1.64 ± 1.64	
	Eos# ×10 ⁹ /L		0.15 ± 0.15		0.51 ± 0.51		1.64 ± 1.64	
	Bas# ×10 ⁹ /L		0.02 ± 0.02		0.09 ± 0.09		0.29 ± 0.29	
	Neu%		49.0 ± 12.0		55.3 ± 12.0		62.0 ± 12.0	
	Lym%		36.2 ± 9.0		28.0 ± 8.0		18.4 ± 7.0	
	Mon%		9.4 ± 9.4		9.1 ± 9.1		9.0 ± 9.0	
	Eos%		4.7 ± 4.7		6.5 ± 6.5		9.0 ± 9.0	
	Bas%		0.7 ± 0.7		1.1 ± 1.1		1.6 ± 1.6	
	RBC ×10 ¹² /L		2.05 ± 0.18		4.06 ± 0.24		5.06 ± 0.30	
	HGB g/L		57 ± 4		123 ± 6		159 ± 8	
	HCT %		18.2 ± 1.5		39.0 ± 2.0		49.6 ± 2.4	
	MCV fL		89.0 ± 5.0		96.0 ± 5.0		98.0 ± 5.0	
	MCH pg		27.8 ± 2.5		30.3 ± 2.5		31.4 ± 2.5	
	MCHC g/L		312 ± 30		316 ± 30		321 ± 30	
	RDW-CV %		16.8 ± 3.0		16.5 ± 3.0		17.0 ± 3.0	
	RDW-SD fL		54.0 ± 8.0		57.0 ± 8.0		58.0 ± 8.0	
	PLT ×10 ⁹ /L		47 ± 20		237 ± 40		497 ± 60	
	MPV fL		9.8 ± 3.0		10.1 ± 3.0		9.2 ± 3.0	
	PCT %*		0.050 ± 0.050		0.237 ± 0.100		0.455 ± 0.200	
	PDW*		15.2 ± 3.0		16.3 ± 3.0		15.5 ± 3.0	
	P-LCC ×10 ⁹ /L**		15 ± 15		60 ± 25		99 ± 35	
	P-LCR %**		24.0 ± 10.0		26.5 ± 10.0		19.5 ± 10.0	
BC-5300Vet,BC-5100Vet	WBC ×10 ⁹ /L		3.35 ± 0.50		8.10 ± 1.00		18.80 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.79 ± 0.31		4.78 ± 0.65		12.50 ± 1.51	
	Lym# ×10 ⁹ /L		1.23 ± 0.31		2.32 ± 0.65		3.48 ± 1.51	
	Mon# ×10 ⁹ /L		0.18 ± 0.17		0.45 ± 0.41		1.03 ± 0.94	
	Eos# ×10 ⁹ /L		0.15 ± 0.14		0.55 ± 0.41		1.79 ± 1.51	
	Neu%		53.3 ± 9.0		59.0 ± 8.0		66.5 ± 8.0	
	Lym%		36.7 ± 9.0		28.7 ± 8.0		18.5 ± 8.0	
	Mon%		5.5 ± 5.0		5.5 ± 5.0		5.5 ± 5.0	
	Eos%		4.5 ± 4.0		6.8 ± 5.0		9.5 ± 8.0	
	RBC ×10 ¹² /L		2.08 ± 0.18		4.05 ± 0.24		5.05 ± 0.30	
	HGB g/L		57 ± 4		120 ± 6		155 ± 8	
	HCT %		18.8 ± 1.5		40.3 ± 2.0		51.5 ± 2.4	
	MCV fL		90.5 ± 5.0		99.5 ± 5.0		102.0 ± 5.0	
	MCH pg		27.4 ± 2.5		29.6 ± 2.5		30.7 ± 2.5	
	MCHC g/L		303 ± 30		298 ± 30		301 ± 30	
	RDW-CV %		14.0 ± 3.0		13.5 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		55.5 ± 8.0		60.0 ± 8.0		58.8 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		230 ± 40		481 ± 60	
	MPV fL		7.8 ± 3.0		8.4 ± 3.0		7.9 ± 3.0	
	PCT %*		0.050 ± 0.050		0.194 ± 0.100		0.377 ± 0.200	
	PDW*		15.7 ± 3.0		16.4 ± 3.0		15.5 ± 3.0	

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

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EC	REP
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