

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC1707B**2017-09-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC1707BL	LOT	BC1707BN	LOT	BC1707BH	
BC-5800,BC-5600	WBC ×10 ⁹ /L		3.45 ± 0.50		8.00 ± 1.00		17.90 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.69 ± 0.35		4.48 ± 0.65		11.46 ± 1.45	
	Lym# ×10 ⁹ /L		1.31 ± 0.35		2.32 ± 0.65		3.49 ± 1.45	
	Mon# ×10 ⁹ /L		0.26 ± 0.25		0.60 ± 0.50		1.25 ± 1.10	
	Eos# ×10 ⁹ /L		0.16 ± 0.15		0.52 ± 0.45		1.52 ± 1.30	
	Bas# ×10 ⁹ /L		0.03 ± 0.03		0.08 ± 0.08		0.18 ± 0.18	
	Neu%		49.0 ± 9.0		56.0 ± 8.0		64.0 ± 8.0	
	Lym%		38.0 ± 9.0		29.0 ± 8.0		19.5 ± 8.0	
	Mon%		7.5 ± 6.0		7.5 ± 6.0		7.0 ± 6.0	
	Eos%		4.5 ± 4.0		6.5 ± 5.0		8.5 ± 7.0	
	Bas%		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC ×10 ¹² /L		2.24 ± 0.18		4.27 ± 0.24		5.07 ± 0.30	
	HGB g/L		61 ± 4		130 ± 6		169 ± 8	
	HCT %		18.8 ± 1.5		40.1 ± 2.0		52.5 ± 2.4	
	MCV fL		84.0 ± 5.0		94.0 ± 5.0		103.5 ± 5.0	
	MCH pg		27.2 ± 2.5		30.4 ± 2.5		33.3 ± 2.5	
	MCHC g/L		324 ± 30		324 ± 30		322 ± 30	
	RDW-CV %		15.0 ± 3.0		13.5 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		43.5 ± 8.0		45.0 ± 8.0		46.5 ± 8.0	
	PLT ×10 ⁹ /L		51 ± 20		235 ± 40		497 ± 60	
	MPV fL		7.3 ± 3.0		8.2 ± 3.0		8.2 ± 3.0	
	PCT %*		0.050 ± 0.050		0.190 ± 0.100		0.410 ± 0.200	
	PDW*		16.6 ± 3.0		16.3 ± 3.0		15.0 ± 3.0	
	P-LCC ×10 ⁹ /L		15 ± 15		51 ± 25		97 ± 35	
	P-LCR %		19.0 ± 10.0		22.0 ± 10.0		19.5 ± 10.0	
BC-5500,BC-5200	WBC ×10 ⁹ /L		3.35 ± 0.50		7.65 ± 1.00		16.80 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.64 ± 0.35		4.28 ± 0.65		10.67 ± 1.35	
	Lym# ×10 ⁹ /L		1.27 ± 0.35		2.18 ± 0.65		3.28 ± 1.35	
	Mon# ×10 ⁹ /L		0.22 ± 0.21		0.54 ± 0.50		1.09 ± 0.85	
	Eos# ×10 ⁹ /L		0.18 ± 0.17		0.57 ± 0.50		1.60 ± 1.20	
	Bas# ×10 ⁹ /L		0.03 ± 0.03		0.08 ± 0.08		0.17 ± 0.17	
	Neu%		49.0 ± 9.0		56.0 ± 8.0		63.5 ± 8.0	
	Lym%		38.0 ± 9.0		28.5 ± 8.0		19.5 ± 8.0	
	Mon%		6.5 ± 6.0		7.0 ± 6.0		6.5 ± 5.0	
	Eos%		5.5 ± 5.0		7.5 ± 6.0		9.5 ± 7.0	
	Bas%		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC ×10 ¹² /L		2.25 ± 0.18		4.28 ± 0.24		5.03 ± 0.30	
	HGB g/L		65 ± 4		139 ± 6		180 ± 8	
	HCT %		17.9 ± 1.5		38.5 ± 2.0		49.5 ± 2.4	
	MCV fL		79.5 ± 5.0		90.0 ± 5.0		98.5 ± 5.0	
	MCH pg		28.9 ± 2.5		32.5 ± 2.5		35.8 ± 2.5	
	MCHC g/L		363 ± 30		361 ± 30		363 ± 30	
	RDW-CV %		12.0 ± 3.0		11.5 ± 3.0		11.0 ± 3.0	
	RDW-SD fL		31.0 ± 8.0		33.0 ± 8.0		36.5 ± 8.0	
	PLT ×10 ⁹ /L		53 ± 20		232 ± 40		482 ± 60	
	MPV fL		7.7 ± 3.0		8.7 ± 3.0		8.8 ± 3.0	
	PCT %*		0.050 ± 0.050		0.205 ± 0.100		0.425 ± 0.200	
	PDW*		16.7 ± 3.0		16.4 ± 3.0		15.3 ± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC1707BL	LOT	BC1707BN	LOT	BC1707BH	
BC-5390	WBC ×10 ⁹ /L		3.15 ± 0.50		7.45 ± 1.00		16.95 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.65 ± 0.30		4.31 ± 0.60		11.05 ± 1.55	
	Lym# ×10 ⁹ /L		1.14 ± 0.30		2.03 ± 0.60		3.15 ± 1.20	
	Mon# ×10 ⁹ /L		0.18 ± 0.15		0.48 ± 0.40		1.05 ± 0.85	
	Eos# ×10 ⁹ /L		0.18 ± 0.15		0.62 ± 0.55		1.70 ± 1.40	
	Bas# ×10 ⁹ /L		0.73 ± 0.35		2.03 ± 0.75		5.19 ± 1.70	
	Neu%		52.4 ± 9.0		57.9 ± 8.0		65.2 ± 9.0	
	Lym%		36.3 ± 9.0		27.3 ± 8.0		18.6 ± 7.0	
	Mon%		5.7 ± 4.0		6.5 ± 5.0		6.2 ± 5.0	
	Eos%		5.6 ± 4.0		8.3 ± 7.0		10.0 ± 8.0	
	Bas%		23.3 ± 10.0		27.3 ± 10.0		30.6 ± 10.0	
	RBC ×10 ¹² /L		2.20 ± 0.18		4.24 ± 0.24		5.01 ± 0.30	
	HGB g/L		56 ± 4		121 ± 6		158 ± 8	
	HCT %		17.9 ± 1.5		38.6 ± 2.0		50.6 ± 2.4	
	MCV fL		81.5 ± 5.0		91.0 ± 5.0		101.0 ± 5.0	
	MCH pg		25.5 ± 2.5		28.5 ± 2.5		31.5 ± 2.5	
	MCHC g/L		312 ± 30		314 ± 30		312 ± 30	
	RDW-CV %		14.5 ± 3.0		13.5 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		46.0 ± 8.0		47.0 ± 8.0		48.5 ± 8.0	
	PLT ×10 ⁹ /L		53 ± 20		230 ± 40		497 ± 60	
	MPV fL		10.2 ± 3.0		10.9 ± 3.0		10.6 ± 3.0	
BC-5390 CRP	WBC ×10 ⁹ /L		3.25 ± 0.50		7.60 ± 1.00		17.35 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.67 ± 0.30		4.37 ± 0.65		11.28 ± 1.60	
	Lym# ×10 ⁹ /L		1.19 ± 0.30		2.17 ± 0.65		3.30 ± 1.25	
	Mon# ×10 ⁹ /L		0.23 ± 0.20		0.49 ± 0.40		1.04 ± 0.90	
	Eos# ×10 ⁹ /L		0.16 ± 0.14		0.57 ± 0.50		1.74 ± 1.40	
	Bas# ×10 ⁹ /L		0.76 ± 0.35		2.07 ± 0.80		5.33 ± 1.75	
	Neu%		51.5 ± 9.0		57.5 ± 8.0		65.0 ± 9.0	
	Lym%		36.5 ± 9.0		28.5 ± 8.0		19.0 ± 7.0	
	Mon%		7.0 ± 5.0		6.5 ± 5.0		6.0 ± 5.0	
	Eos%		5.0 ± 4.0		7.5 ± 6.0		10.0 ± 8.0	
	Bas%		23.3 ± 10.0		27.2 ± 10.0		30.7 ± 10.0	
	RBC ×10 ¹² /L		2.20 ± 0.18		4.24 ± 0.24		5.00 ± 0.30	
	HGB g/L		57 ± 4		122 ± 6		158 ± 8	
	HCT %		17.6 ± 1.5		38.8 ± 2.0		50.8 ± 2.4	
	MCV fL		80.0 ± 5.0		91.5 ± 5.0		101.5 ± 5.0	
	MCH pg		25.9 ± 2.5		28.8 ± 2.5		31.6 ± 2.5	
	MCHC g/L		324 ± 30		314 ± 30		311 ± 30	
	RDW-CV %		15.0 ± 3.0		14.0 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		44.0 ± 8.0		46.0 ± 8.0		48.0 ± 8.0	
	PLT ×10 ⁹ /L		44 ± 20		220 ± 40		474 ± 60	
	MPV fL		7.7 ± 3.0		8.3 ± 3.0		8.1 ± 3.0	
	PCT %*		0.050 ± 0.050		0.180 ± 0.100		0.380 ± 0.200	
	PDW*		16.3 ± 3.0		16.0 ± 3.0		15.2 ± 3.0	
	P-LCC ×10 ⁹ /L		15 ± 15		39 ± 25		65 ± 35	
	P-LCR %		17.5 ± 10.0		17.5 ± 10.0		13.5 ± 10.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC1707BL	LOT	BC1707BN	LOT	BC1707BH	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.30 \pm 0.50		7.70 \pm 1.00		17.40 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.77 \pm 0.30		4.64 \pm 0.65		11.57 \pm 1.40	
QC Mode	Lym# $\times 10^9/L$		1.18 \pm 0.30		2.06 \pm 0.65		3.13 \pm 1.40	
(Software version lower than 1.24.00.16860)	Mon# $\times 10^9/L$		0.15 \pm 0.14		0.39 \pm 0.35		0.84 \pm 0.70	
	Eos# $\times 10^9/L$		0.20 \pm 0.20		0.62 \pm 0.50		1.86 \pm 1.60	
	Bas# $\times 10^9/L$		1.67 \pm 0.35		4.93 \pm 0.80		13.22 \pm 1.75	
	Neu%		53.5 \pm 9.0		60.2 \pm 8.0		66.5 \pm 8.0	
	Lym%		35.8 \pm 9.0		26.8 \pm 8.0		18.0 \pm 8.0	
	Mon%		4.5 \pm 4.0		5.0 \pm 4.0		4.8 \pm 4.0	
	Eos%		6.2 \pm 5.0		8.0 \pm 6.0		10.7 \pm 9.0	
	Bas%		50.7 \pm 10.0		64.0 \pm 10.0		76.0 \pm 10.0	
	RBC $\times 10^{12}/L$		2.20 \pm 0.18		4.25 \pm 0.24		4.98 \pm 0.30	
	HGB g/L		57 \pm 4		123 \pm 6		158 \pm 8	
	HCT %		18.9 \pm 1.5		41.4 \pm 2.0		53.2 \pm 2.4	
	MCV fL		86.0 \pm 5.0		97.3 \pm 5.0		106.8 \pm 5.0	
	MCH pg		25.9 \pm 2.5		28.9 \pm 2.5		31.7 \pm 2.5	
	MCHC g/L		301 \pm 30		297 \pm 30		297 \pm 30	
	RDW-CV %		14.7 \pm 3.0		13.5 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		58.0 \pm 8.0		59.0 \pm 8.0		61.3 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		221 \pm 40		473 \pm 60	
	MPV fL		7.8 \pm 3.0		8.4 \pm 3.0		8.3 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.188 \pm 0.100		0.393 \pm 0.200	
	PDW*		16.6 \pm 3.0		16.3 \pm 3.0		15.4 \pm 3.0	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.25 \pm 0.50		7.60 \pm 1.00		17.35 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.76 \pm 0.30		4.58 \pm 0.65		11.49 \pm 1.40	
QC Mode	Lym# $\times 10^9/L$		1.14 \pm 0.30		2.05 \pm 0.65		3.18 \pm 1.40	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.16 \pm 0.15		0.33 \pm 0.31		0.83 \pm 0.70	
	Eos# $\times 10^9/L$		0.20 \pm 0.17		0.65 \pm 0.50		1.86 \pm 1.40	
	Bas# $\times 10^9/L$		1.70 \pm 0.35		4.98 \pm 0.80		13.41 \pm 1.75	
	Neu%		54.0 \pm 9.0		60.2 \pm 8.0		66.2 \pm 8.0	
	Lym%		35.2 \pm 9.0		27.0 \pm 8.0		18.3 \pm 8.0	
	Mon%		4.8 \pm 4.0		4.3 \pm 4.0		4.8 \pm 4.0	
	Eos%		6.0 \pm 5.0		8.5 \pm 6.0		10.7 \pm 8.0	
	Bas%		52.2 \pm 10.0		65.5 \pm 10.0		77.3 \pm 10.0	
	RBC $\times 10^{12}/L$		2.21 \pm 0.18		4.25 \pm 0.24		5.04 \pm 0.30	
	HGB g/L		58 \pm 4		123 \pm 6		160 \pm 8	
	HCT %		18.5 \pm 1.5		40.4 \pm 2.0		51.9 \pm 2.4	
	MCV fL		83.5 \pm 5.0		95.0 \pm 5.0		103.0 \pm 5.0	
	MCH pg		26.2 \pm 2.5		28.9 \pm 2.5		31.7 \pm 2.5	
	MCHC g/L		314 \pm 30		305 \pm 30		308 \pm 30	
	RDW-CV %		14.5 \pm 3.0		13.5 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		52.5 \pm 8.0		54.0 \pm 8.0		56.5 \pm 8.0	
	PLT $\times 10^9/L$		43 \pm 20		220 \pm 40		482 \pm 60	
	MPV fL		7.9 \pm 3.0		8.5 \pm 3.0		8.2 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.190 \pm 0.100		0.395 \pm 0.200	
	PDW*		16.1 \pm 3.0		16.0 \pm 3.0		15.1 \pm 3.0	

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ASSAY VALUES AND EXPECTED RANGES

LOT

BC1707B



2017-09-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC1707BL	LOT	BC1707BN	LOT	BC1707BH	
BC-5000,BC-5150,BC-5120	WBC ×10 ⁹ /L	3.30	± 0.50	7.80	± 1.00	17.40	± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# ×10 ⁹ /L	1.66	± 0.40	4.38	± 0.95	10.96	± 2.10	
QC Mode	Lym# ×10 ⁹ /L	1.16	± 0.30	2.06	± 0.65	3.01	± 1.25	
	Mon# ×10 ⁹ /L	0.28	± 0.28	0.69	± 0.69	1.48	± 1.48	
	Eos# ×10 ⁹ /L	0.17	± 0.17	0.57	± 0.57	1.67	± 1.67	
	Bas# ×10 ⁹ /L	0.03	± 0.03	0.09	± 0.09	0.28	± 0.28	
	Neu%	50.4	± 12.0	56.2	± 12.0	63.0	± 12.0	
	Lym%	35.2	± 9.0	26.4	± 8.0	17.3	± 7.0	
	Mon%	8.6	± 8.6	8.9	± 8.9	8.5	± 8.5	
	Eos%	5.0	± 5.0	7.3	± 7.3	9.6	± 9.6	
	Bas%	0.8	± 0.8	1.2	± 1.2	1.6	± 1.6	
	RBC ×10 ¹² /L	2.20	± 0.18	4.33	± 0.24	5.10	± 0.30	
	HGB g/L	58	± 4	126	± 6	165	± 8	
	HCT %	18.7	± 1.5	40.3	± 2.0	51.5	± 2.4	
	MCV fL	85.0	± 5.0	93.0	± 5.0	101.0	± 5.0	
	MCH pg	26.4	± 2.5	29.1	± 2.5	32.4	± 2.5	
	MCHC g/L	310	± 30	313	± 30	320	± 30	
	RDW-CV %	17.5	± 3.0	16.4	± 3.0	16.5	± 3.0	
	RDW-SD fL	57.0	± 8.0	56.0	± 8.0	60.0	± 8.0	
	PLT ×10 ⁹ /L	50	± 20	229	± 40	500	± 60	
	MPV fL	9.6	± 3.0	9.9	± 3.0	10.0	± 3.0	
	PCT %*	0.050	± 0.050	0.225	± 0.100	0.505	± 0.200	
	PDW*	16.0	± 3.0	16.3	± 3.0	15.8	± 3.0	
	P-LCC ×10 ⁹ /L**	15	± 15	59	± 25	132	± 35	
	P-LCR %**	24.5	± 10.0	25.5	± 10.0	26.0	± 10.0	
BC-5300Vet,BC-5100Vet	WBC ×10 ⁹ /L	3.30	± 0.50	7.70	± 1.00	17.40	± 2.50	
QC Mode	Neu# ×10 ⁹ /L	1.77	± 0.30	4.64	± 0.65	11.57	± 1.40	
	Lym# ×10 ⁹ /L	1.18	± 0.30	2.06	± 0.65	3.13	± 1.40	
	Mon# ×10 ⁹ /L	0.15	± 0.14	0.39	± 0.35	0.84	± 0.70	
	Eos# ×10 ⁹ /L	0.20	± 0.20	0.62	± 0.50	1.86	± 1.60	
	Neu%	53.5	± 9.0	60.2	± 8.0	66.5	± 8.0	
	Lym%	35.8	± 9.0	26.8	± 8.0	18.0	± 8.0	
	Mon%	4.5	± 4.0	5.0	± 4.0	4.8	± 4.0	
	Eos%	6.2	± 5.0	8.0	± 6.0	10.7	± 9.0	
	RBC ×10 ¹² /L	2.20	± 0.18	4.25	± 0.24	4.98	± 0.30	
	HGB g/L	57	± 4	123	± 6	158	± 8	
	HCT %	18.9	± 1.5	41.4	± 2.0	53.2	± 2.4	
	MCV fL	86.0	± 5.0	97.3	± 5.0	106.8	± 5.0	
	MCH pg	25.9	± 2.5	28.9	± 2.5	31.7	± 2.5	
	MCHC g/L	301	± 30	297	± 30	297	± 30	
	RDW-CV %	14.7	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	58.0	± 8.0	59.0	± 8.0	61.3	± 8.0	
	PLT ×10 ⁹ /L	49	± 20	221	± 40	473	± 60	
	MPV fL	7.8	± 3.0	8.4	± 3.0	8.3	± 3.0	
	PCT %*	0.050	± 0.050	0.188	± 0.100	0.393	± 0.200	
	PDW*	16.6	± 3.0	16.3	± 3.0	15.4	± 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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