

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES


BC1903B
2019-05-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC1903BL	LOT	BC1903BN	LOT	BC1903BH	
BC-5800,BC-5600 QC Mode	WBC ×10 ⁹ /L	3.40	± 0.50	8.20	± 1.00	18.30	± 2.50	
	Neu# ×10 ⁹ /L	1.65	± 0.31	4.63	± 0.66	11.80	± 1.47	
	Lym# ×10 ⁹ /L	1.33	± 0.31	2.38	± 0.66	3.48	± 1.47	
	Mon# ×10 ⁹ /L	0.24	± 0.21	0.57	± 0.49	1.28	± 1.10	
	Eos# ×10 ⁹ /L	0.15	± 0.14	0.53	± 0.49	1.56	± 1.29	
	Bas# ×10 ⁹ /L	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.5	± 9.0	56.5	± 8.0	64.5	± 8.0	
	Lym%	39.0	± 9.0	29.0	± 8.0	19.0	± 8.0	
	Mon%	7.0	± 6.0	7.0	± 6.0	7.0	± 6.0	
	Eos%	4.5	± 4.0	6.5	± 6.0	8.5	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC ×10 ¹² /L	1.98	± 0.18	4.19	± 0.24	5.18	± 0.30	
	HGB g/L	57	± 4	135	± 6	169	± 8	
	HCT %	17.2	± 1.5	41.3	± 2.0	52.8	± 2.4	
	MCV fL	87.0	± 5.0	98.5	± 5.0	102.0	± 5.0	
	MCH pg	28.8	± 2.5	32.2	± 2.5	32.6	± 2.5	
	MCHC g/L	331	± 30	327	± 30	320	± 30	
	RDW-CV %	14.5	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	44.0	± 10.0	47.5	± 10.0	48.5	± 10.0	
	PLT ×10 ⁹ /L	63	± 20	252	± 40	505	± 60	
	MPV fL	7.0	± 3.0	8.0	± 3.0	8.9	± 3.0	
PCT %*	0.050	± 0.050	0.205	± 0.100	0.460	± 0.200		
PDW*	16.9	± 3.0	16.4	± 3.0	16.2	± 3.0		
P-LCC ×10 ⁹ /L	15	± 15	53	± 25	140	± 35		
P-LCR %	15.5	± 10.0	20.5	± 10.0	27.0	± 10.0		
BC-5500,BC-5200 QC Mode	WBC ×10 ⁹ /L	3.30	± 0.50	7.90	± 1.00	17.45	± 2.50	
	Neu# ×10 ⁹ /L	1.60	± 0.30	4.38	± 0.64	11.17	± 1.40	
	Lym# ×10 ⁹ /L	1.25	± 0.30	2.29	± 0.64	3.32	± 1.40	
	Mon# ×10 ⁹ /L	0.21	± 0.20	0.59	± 0.48	1.22	± 1.05	
	Eos# ×10 ⁹ /L	0.20	± 0.17	0.55	± 0.48	1.57	± 1.23	
	Bas# ×10 ⁹ /L	0.03	± 0.03	0.08	± 0.08	0.17	± 0.17	
	Neu%	48.5	± 9.0	55.5	± 8.0	64.0	± 8.0	
	Lym%	38.0	± 9.0	29.0	± 8.0	19.0	± 8.0	
	Mon%	6.5	± 6.0	7.5	± 6.0	7.0	± 6.0	
	Eos%	6.0	± 5.0	7.0	± 6.0	9.0	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC ×10 ¹² /L	2.02	± 0.18	4.20	± 0.24	5.13	± 0.30	
	HGB g/L	60	± 4	143	± 6	180	± 8	
	HCT %	16.7	± 1.5	39.3	± 2.0	49.8	± 2.4	
	MCV fL	82.5	± 5.0	93.5	± 5.0	97.0	± 5.0	
	MCH pg	29.7	± 2.5	34.0	± 2.5	35.1	± 2.5	
	MCHC g/L	360	± 30	364	± 30	362	± 30	
	RDW-CV %	11.5	± 3.0	11.0	± 3.0	11.0	± 3.0	
	RDW-SD fL	29.5	± 8.0	34.0	± 8.0	34.5	± 8.0	
	PLT ×10 ⁹ /L	58	± 20	248	± 40	490	± 60	
	MPV fL	7.5	± 3.0	8.6	± 3.0	9.6	± 3.0	
PCT %*	0.050	± 0.050	0.220	± 0.100	0.480	± 0.200		
PDW*	17.1	± 3.0	16.5	± 3.0	16.4	± 3.0		

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BC1903B
2019-05-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC1903BL	LOT	BC1903BN	LOT	BC1903BH	
BC-5390	WBC ×10 ⁹ /L	3.30	± 0.50	8.10	± 1.00	17.85	± 2.50	
QC Mode	Neu# ×10 ⁹ /L	1.70	± 0.30	4.74	± 0.65	11.87	± 1.61	
	Lym# ×10 ⁹ /L	1.20	± 0.30	2.27	± 0.65	3.12	± 1.25	
	Mon# ×10 ⁹ /L	0.23	± 0.20	0.53	± 0.49	1.16	± 1.08	
	Eos# ×10 ⁹ /L	0.17	± 0.14	0.57	± 0.49	1.70	± 1.44	
	Bas# ×10 ⁹ /L	0.81	± 0.34	2.21	± 0.81	5.50	± 1.79	
	Neu%	51.5	± 9.0	58.5	± 8.0	66.5	± 9.0	
	Lym%	36.5	± 9.0	28.0	± 8.0	17.5	± 7.0	
	Mon%	7.0	± 6.0	6.5	± 6.0	6.5	± 6.0	
	Eos%	5.0	± 4.0	7.0	± 6.0	9.5	± 8.0	
	Bas%	24.4	± 10.0	27.3	± 10.0	30.8	± 10.0	
	RBC ×10 ¹² /L	1.93	± 0.18	4.12	± 0.24	5.09	± 0.30	
	HGB g/L	52	± 4	126	± 6	158	± 8	
	HCT %	16.5	± 1.5	39.6	± 2.0	50.4	± 2.4	
	MCV fL	85.5	± 5.0	96.0	± 5.0	99.0	± 5.0	
	MCH pg	26.9	± 2.5	30.6	± 2.5	31.0	± 2.5	
	MCHC g/L	315	± 30	319	± 30	314	± 30	
	RDW-CV %	13.5	± 3.0	13.0	± 3.0	13.0	± 3.0	
	RDW-SD fL	44.0	± 8.0	47.0	± 8.0	49.0	± 8.0	
	PLT ×10 ⁹ /L	59	± 20	240	± 40	491	± 60	
	MPV fL	10.2	± 3.0	10.8	± 3.0	11.5	± 3.0	
BC-5390 CRP	WBC ×10 ⁹ /L	3.30	± 0.50	8.10	± 1.00	18.15	± 2.50	
QC Mode	Neu# ×10 ⁹ /L	1.72	± 0.30	4.70	± 0.65	12.07	± 1.64	
	Lym# ×10 ⁹ /L	1.17	± 0.30	2.27	± 0.65	3.18	± 1.28	
	Mon# ×10 ⁹ /L	0.21	± 0.20	0.57	± 0.49	1.09	± 0.91	
	Eos# ×10 ⁹ /L	0.20	± 0.17	0.57	± 0.49	1.82	± 1.46	
	Bas# ×10 ⁹ /L	0.82	± 0.34	2.22	± 0.82	5.59	± 1.82	
	Neu%	52.0	± 9.0	58.0	± 8.0	66.5	± 9.0	
	Lym%	35.5	± 9.0	28.0	± 8.0	17.5	± 7.0	
	Mon%	6.5	± 6.0	7.0	± 6.0	6.0	± 5.0	
	Eos%	6.0	± 5.0	7.0	± 6.0	10.0	± 8.0	
	Bas%	24.7	± 10.0	27.4	± 10.0	30.8	± 10.0	
	RBC ×10 ¹² /L	1.92	± 0.18	4.12	± 0.24	5.11	± 0.30	
	HGB g/L	53	± 4	126	± 6	157	± 8	
	HCT %	16.2	± 1.5	39.8	± 2.0	51.1	± 2.4	
	MCV fL	84.5	± 5.0	96.5	± 5.0	100.0	± 5.0	
	MCH pg	27.6	± 2.5	30.6	± 2.5	30.7	± 2.5	
	MCHC g/L	327	± 30	317	± 30	307	± 30	
	RDW-CV %	14.0	± 3.0	13.5	± 3.0	13.5	± 3.0	
	RDW-SD fL	42.0	± 8.0	47.0	± 8.0	48.0	± 8.0	
	PLT ×10 ⁹ /L	57	± 20	236	± 40	494	± 60	
	MPV fL	7.5	± 3.0	8.3	± 3.0	9.0	± 3.0	
	PCT %*	0.050	± 0.050	0.200	± 0.100	0.445	± 0.200	
	PDW*	16.4	± 3.0	16.2	± 3.0	16.3	± 3.0	
	P-LCC ×10 ⁹ /L	15	± 15	42	± 25	110	± 35	
	P-LCR %	14.5	± 10.0	17.5	± 10.0	22.5	± 10.0	

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ASSAY VALUES AND EXPECTED RANGES

LOT

BC1903B



2019-05-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC1903BL	LOT	BC1903BN	LOT	BC1903BH	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.20 ± 0.50		7.90 ± 1.00		17.70 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.66 ± 0.29		4.70 ± 0.64		11.86 ± 1.42	
QC Mode	Lym# ×10 ⁹ /L		1.18 ± 0.29		2.17 ± 0.64		3.19 ± 1.42	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.16 ± 0.13		0.43 ± 0.40		0.89 ± 0.72	
	Eos# ×10 ⁹ /L		0.19 ± 0.16		0.59 ± 0.48		1.77 ± 1.42	
	Bas# ×10 ⁹ /L		1.72 ± 0.33		5.28 ± 0.80		13.72 ± 1.78	
	Neu%		52.0 ± 9.0		59.5 ± 8.0		67.0 ± 8.0	
	Lym%		37.0 ± 9.0		27.5 ± 8.0		18.0 ± 8.0	
	Mon%		5.0 ± 4.0		5.5 ± 5.0		5.0 ± 4.0	
	Eos%		6.0 ± 5.0		7.5 ± 6.0		10.0 ± 8.0	
	Bas%		53.7 ± 10.0		66.8 ± 10.0		77.5 ± 10.0	
	RBC ×10 ¹² /L		1.94 ± 0.18		4.11 ± 0.24		5.12 ± 0.30	
	HGB g/L		53 ± 4		126 ± 6		158 ± 8	
	HCT %		17.4 ± 1.5		41.9 ± 2.0		53.8 ± 2.4	
	MCV fL		89.8 ± 5.0		102.0 ± 5.0		105.0 ± 5.0	
	MCH pg		27.3 ± 2.5		30.7 ± 2.5		30.9 ± 2.5	
	MCHC g/L		304 ± 30		301 ± 30		294 ± 30	
	RDW-CV %		14.0 ± 3.0		13.3 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		55.0 ± 8.0		59.2 ± 8.0		60.3 ± 8.0	
	PLT ×10 ⁹ /L		59 ± 20		238 ± 40		483 ± 60	
	MPV fL		7.5 ± 3.0		8.3 ± 3.0		9.0 ± 3.0	
	PCT %*		0.050 ± 0.050		0.200 ± 0.100		0.440 ± 0.200	
	PDW*		16.7 ± 3.0		16.3 ± 3.0		16.2 ± 3.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.30 ± 0.50		8.10 ± 1.00		17.90 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.70 ± 0.30		4.78 ± 0.65		11.99 ± 1.44	
QC Mode	Lym# ×10 ⁹ /L		1.22 ± 0.30		2.23 ± 0.65		3.22 ± 1.44	
(Software version 1.24.00.16860 or higher)	Mon# ×10 ⁹ /L		0.15 ± 0.14		0.45 ± 0.41		0.90 ± 0.73	
	Eos# ×10 ⁹ /L		0.23 ± 0.20		0.65 ± 0.49		1.79 ± 1.44	
	Bas# ×10 ⁹ /L		1.85 ± 0.33		5.54 ± 0.81		14.11 ± 1.80	
	Neu%		51.5 ± 9.0		59.0 ± 8.0		67.0 ± 8.0	
	Lym%		37.0 ± 9.0		27.5 ± 8.0		18.0 ± 8.0	
	Mon%		4.5 ± 4.0		5.5 ± 5.0		5.0 ± 4.0	
	Eos%		7.0 ± 6.0		8.0 ± 6.0		10.0 ± 8.0	
	Bas%		56.1 ± 10.0		68.4 ± 10.0		78.8 ± 10.0	
	RBC ×10 ¹² /L		1.92 ± 0.18		4.13 ± 0.24		5.09 ± 0.30	
	HGB g/L		54 ± 4		127 ± 6		158 ± 8	
	HCT %		16.9 ± 1.5		41.3 ± 2.0		52.4 ± 2.4	
	MCV fL		88.0 ± 5.0		100.0 ± 5.0		103.0 ± 5.0	
	MCH pg		28.1 ± 2.5		30.8 ± 2.5		31.0 ± 2.5	
	MCHC g/L		320 ± 30		308 ± 30		301 ± 30	
	RDW-CV %		14.0 ± 3.0		13.5 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		51.5 ± 8.0		56.0 ± 8.0		57.0 ± 8.0	
	PLT ×10 ⁹ /L		55 ± 20		235 ± 40		486 ± 60	
	MPV fL		7.8 ± 3.0		8.6 ± 3.0		9.3 ± 3.0	
	PCT %*		0.050 ± 0.050		0.205 ± 0.100		0.450 ± 0.200	
	PDW*		16.4 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	

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BC1903B
2019-05-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC1903BL	LOT	BC1903BN	LOT	BC1903BH	
BC-5000,BC-5150,BC-5120 BC-5130,BC-5140,BC-5000VET QC Mode	WBC ×10 ⁹ /L	3.25 ± 0.50		7.85 ± 1.00		17.45 ± 2.50		
	Neu# ×10 ⁹ /L	1.60 ± 0.40		4.36 ± 0.95		11.12 ± 2.10		
	Lym# ×10 ⁹ /L	1.19 ± 0.30		2.12 ± 0.63		2.97 ± 1.23		
	Mon# ×10 ⁹ /L	0.27 ± 0.27		0.75 ± 0.75		1.47 ± 1.47		
	Eos# ×10 ⁹ /L	0.17 ± 0.17		0.53 ± 0.53		1.62 ± 1.62		
	Bas# ×10 ⁹ /L	0.03 ± 0.03		0.09 ± 0.09		0.28 ± 0.28		
	Neu%	49.1 ± 12.0		55.5 ± 12.0		63.7 ± 12.0		
	Lym%	36.5 ± 9.0		27.0 ± 8.0		17.0 ± 7.0		
	Mon%	8.3 ± 8.3		9.5 ± 9.5		8.4 ± 8.4		
	Eos%	5.1 ± 5.1		6.8 ± 6.8		9.3 ± 9.3		
	Bas%	1.0 ± 1.0		1.2 ± 1.2		1.6 ± 1.6		
	RBC ×10 ¹² /L	1.95 ± 0.18		4.20 ± 0.24		5.17 ± 0.30		
	HGB g/L	53 ± 4		129 ± 6		163 ± 8		
	HCT %	17.3 ± 1.5		41.4 ± 2.0		51.7 ± 2.4		
	MCV fL	88.5 ± 5.0		98.5 ± 5.0		100.0 ± 5.0		
	MCH pg	27.2 ± 2.5		30.7 ± 2.5		31.5 ± 2.5		
	MCHC g/L	307 ± 30		312 ± 30		315 ± 30		
	RDW-CV %	16.5 ± 3.0		15.5 ± 3.0		15.5 ± 3.0		
	RDW-SD fL	53.0 ± 8.0		55.5 ± 8.0		56.5 ± 8.0		
	PLT ×10 ⁹ /L	56 ± 20		246 ± 40		510 ± 60		
MPV fL	9.1 ± 3.0		10.0 ± 3.0		10.7 ± 3.0			
PCT %*	0.050 ± 0.050		0.245 ± 0.100		0.550 ± 0.200			
PDW*	16.1 ± 3.0		16.2 ± 3.0		16.3 ± 3.0			
P-LCC ×10 ⁹ /L**	15 ± 15		66 ± 25		160 ± 35			
P-LCR %**	21.5 ± 10.0		27.0 ± 10.0		31.5 ± 10.0			
BC-5300Vet,BC-5100Vet QC Mode	WBC ×10 ⁹ /L	3.20 ± 0.50		7.90 ± 1.00		17.70 ± 2.50		
	Neu# ×10 ⁹ /L	1.66 ± 0.29		4.70 ± 0.64		11.86 ± 1.42		
	Lym# ×10 ⁹ /L	1.18 ± 0.29		2.17 ± 0.64		3.19 ± 1.42		
	Mon# ×10 ⁹ /L	0.16 ± 0.13		0.43 ± 0.40		0.89 ± 0.72		
	Eos# ×10 ⁹ /L	0.19 ± 0.16		0.59 ± 0.48		1.77 ± 1.42		
	Neu%	52.0 ± 9.0		59.5 ± 8.0		67.0 ± 8.0		
	Lym%	37.0 ± 9.0		27.5 ± 8.0		18.0 ± 8.0		
	Mon%	5.0 ± 4.0		5.5 ± 5.0		5.0 ± 4.0		
	Eos%	6.0 ± 5.0		7.5 ± 6.0		10.0 ± 8.0		
	RBC ×10 ¹² /L	1.94 ± 0.18		4.11 ± 0.24		5.12 ± 0.30		
	HGB g/L	53 ± 4		126 ± 6		158 ± 8		
	HCT %	17.4 ± 1.5		41.9 ± 2.0		53.8 ± 2.4		
	MCV fL	89.8 ± 5.0		102.0 ± 5.0		105.0 ± 5.0		
	MCH pg	27.3 ± 2.5		30.7 ± 2.5		30.9 ± 2.5		
	MCHC g/L	304 ± 30		301 ± 30		294 ± 30		
	RDW-CV %	14.0 ± 3.0		13.3 ± 3.0		13.3 ± 3.0		
	RDW-SD fL	55.0 ± 8.0		59.2 ± 8.0		60.3 ± 8.0		
	PLT ×10 ⁹ /L	59 ± 20		238 ± 40		483 ± 60		
	MPV fL	7.5 ± 3.0		8.3 ± 3.0		9.0 ± 3.0		
	PCT %*	0.050 ± 0.050		0.200 ± 0.100		0.440 ± 0.200		
PDW*	16.7 ± 3.0		16.3 ± 3.0		16.2 ± 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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