

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2003B**2020-05-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2003BL	LOT	BC2003BN	LOT	BC2003BH	
BC-5800,BC-5600	WBC $\times 10^9/L$	3.50	± 0.50	7.90	± 1.00	17.95	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.70	± 0.32	4.35	± 0.72	11.31	± 1.62	
	Lym# $\times 10^9/L$	1.33	± 0.32	2.37	± 0.64	3.68	± 1.44	
	Mon# $\times 10^9/L$	0.26	± 0.21	0.55	± 0.48	1.26	± 1.08	
	Eos# $\times 10^9/L$	0.18	± 0.15	0.55	± 0.48	1.53	± 1.26	
	Bas# $\times 10^9/L$	0.04	± 0.04	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.5	± 9.0	55.0	± 9.0	63.0	± 9.0	
	Lym%	38.0	± 9.0	30.0	± 8.0	20.5	± 8.0	
	Mon%	7.5	± 6.0	7.0	± 6.0	7.0	± 6.0	
	Eos%	5.0	± 4.0	7.0	± 6.0	8.5	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.17	± 0.18	4.29	± 0.24	4.85	± 0.30	
	HGB g/L	61	± 4	136	± 6	166	± 8	
	HCT %	18.7	± 1.5	41.6	± 2.0	51.4	± 2.4	
	MCV fL	86.0	± 5.0	97.0	± 5.0	106.0	± 5.0	
	MCH pg	28.1	± 2.5	31.7	± 2.5	34.2	± 2.5	
	MCHC g/L	327	± 30	327	± 30	323	± 30	
	RDW-CV %	15.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	44.2	± 10.0	47.5	± 10.0	51.0	± 10.0	
	PLT $\times 10^9/L$	50	± 20	257	± 40	495	± 60	
	MPV fL	8.2	± 3.0	9.0	± 3.0	7.9	± 3.0	
	PCT %*	0.050	± 0.050	0.240	± 0.100	0.400	± 0.200	
	PDW*	16.0	± 3.0	16.7	± 3.0	16.4	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	75	± 25	106	± 35	
	P-LCR %	22.0	± 10.0	29.0	± 10.0	21.5	± 10.0	
BC-5390	WBC $\times 10^9/L$	3.25	± 0.50	7.50	± 1.00	17.25	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.64	± 0.30	4.28	± 0.68	11.30	± 1.56	
	Lym# $\times 10^9/L$	1.19	± 0.30	2.06	± 0.60	3.19	± 1.21	
	Mon# $\times 10^9/L$	0.24	± 0.20	0.49	± 0.38	1.21	± 1.04	
	Eos# $\times 10^9/L$	0.18	± 0.14	0.68	± 0.53	1.55	± 1.21	
	Bas# $\times 10^9/L$	0.77	± 0.33	2.04	± 0.75	5.24	± 1.73	
	Neu%	50.5	± 9.0	57.0	± 9.0	65.5	± 9.0	
	Lym%	36.5	± 9.0	27.5	± 8.0	18.5	± 7.0	
	Mon%	7.5	± 6.0	6.5	± 5.0	7.0	± 6.0	
	Eos%	5.5	± 4.0	9.0	± 7.0	9.0	± 7.0	
	Bas%	23.7	± 10.0	27.2	± 10.0	30.4	± 10.0	
	RBC $\times 10^{12}/L$	2.10	± 0.18	4.22	± 0.24	4.81	± 0.30	
	HGB g/L	55	± 4	126	± 6	154	± 8	
	HCT %	17.7	± 1.5	39.9	± 2.0	49.5	± 2.4	
	MCV fL	84.5	± 5.0	94.5	± 5.0	103.0	± 5.0	
	MCH pg	26.2	± 2.5	29.9	± 2.5	32.0	± 2.5	
	MCHC g/L	310	± 30	316	± 30	311	± 30	
	RDW-CV %	14.0	± 3.0	13.0	± 3.0	13.0	± 3.0	
	RDW-SD fL	45.5	± 8.0	48.0	± 8.0	50.0	± 8.0	
	PLT $\times 10^9/L$	49	± 20	250	± 40	470	± 60	
	MPV fL	11.2	± 3.0	11.7	± 3.0	10.6	± 3.0	

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LOT


BC2003B
2020-05-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2003BL	LOT	BC2003BN	LOT	BC2003BH	
BC-5390 CRP	WBC ×10 ⁹ /L		3.30 ± 0.50		7.60 ± 1.00		17.55 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.68 ± 0.30		4.37 ± 0.69		11.50 ± 1.59	
	Lym# ×10 ⁹ /L		1.16 ± 0.30		2.09 ± 0.61		3.33 ± 1.23	
	Mon# ×10 ⁹ /L		0.26 ± 0.20		0.53 ± 0.38		1.05 ± 0.88	
	Eos# ×10 ⁹ /L		0.20 ± 0.17		0.61 ± 0.46		1.67 ± 1.41	
	Bas# ×10 ⁹ /L		0.79 ± 0.34		2.07 ± 0.76		5.34 ± 1.76	
	Neu%		51.0 ± 9.0		57.5 ± 9.0		65.5 ± 9.0	
	Lym%		35.0 ± 9.0		27.5 ± 8.0		19.0 ± 7.0	
	Mon%		8.0 ± 6.0		7.0 ± 5.0		6.0 ± 5.0	
	Eos%		6.0 ± 5.0		8.0 ± 6.0		9.5 ± 8.0	
	Bas%		23.8 ± 10.0		27.3 ± 10.0		30.4 ± 10.0	
	RBC ×10 ¹² /L		2.13 ± 0.18		4.24 ± 0.24		4.83 ± 0.30	
	HGB g/L		57 ± 4		127 ± 6		154 ± 8	
	HCT %		17.8 ± 1.5		40.3 ± 2.0		49.7 ± 2.4	
	MCV fL		83.5 ± 5.0		95.0 ± 5.0		103.0 ± 5.0	
	MCH pg		26.8 ± 2.5		30.0 ± 2.5		31.9 ± 2.5	
	MCHC g/L		320 ± 30		315 ± 30		310 ± 30	
	RDW-CV %		14.5 ± 3.0		13.5 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		43.5 ± 8.0		46.0 ± 8.0		48.5 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		250 ± 40		466 ± 60	
	MPV fL		8.5 ± 3.0		9.2 ± 3.0		8.1 ± 3.0	
	PCT %*		0.050 ± 0.050		0.230 ± 0.100		0.380 ± 0.200	
	PDW*		15.7 ± 3.0		16.7 ± 3.0		16.4 ± 3.0	
	P-LCC ×10 ⁹ /L		15 ± 15		61 ± 25		84 ± 35	
	P-LCR %		18.5 ± 10.0		24.5 ± 10.0		18.0 ± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.25 ± 0.50		7.50 ± 1.00		17.50 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.72 ± 0.30		4.58 ± 0.68		11.73 ± 1.58	
QC Mode	Lym# ×10 ⁹ /L		1.19 ± 0.30		2.10 ± 0.60		3.33 ± 1.41	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.15 ± 0.14		0.26 ± 0.26		0.88 ± 0.71	
	Eos# ×10 ⁹ /L		0.20 ± 0.17		0.56 ± 0.45		1.58 ± 1.23	
	Bas# ×10 ⁹ /L		1.76 ± 0.33		4.91 ± 0.75		13.41 ± 1.76	
	Neu%		52.8 ± 9.0		61.0 ± 9.0		67.0 ± 9.0	
	Lym%		36.7 ± 9.0		28.0 ± 8.0		19.0 ± 8.0	
	Mon%		4.5 ± 4.0		3.5 ± 3.5		5.0 ± 4.0	
	Eos%		6.0 ± 5.0		7.5 ± 6.0		9.0 ± 7.0	
	Bas%		54.0 ± 10.0		65.5 ± 10.0		76.6 ± 10.0	
	RBC ×10 ¹² /L		2.12 ± 0.18		4.24 ± 0.24		4.80 ± 0.30	
	HGB g/L		57 ± 4		128 ± 6		155 ± 8	
	HCT %		18.8 ± 1.5		42.0 ± 2.0		51.6 ± 2.4	
	MCV fL		88.5 ± 5.0		99.0 ± 5.0		107.5 ± 5.0	
	MCH pg		26.9 ± 2.5		30.2 ± 2.5		32.3 ± 2.5	
	MCHC g/L		304 ± 30		305 ± 30		300 ± 30	
	RDW-CV %		14.5 ± 3.0		13.5 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		55.5 ± 8.0		58.8 ± 8.0		62.5 ± 8.0	
	PLT ×10 ⁹ /L		47 ± 20		242 ± 40		459 ± 60	
	MPV fL		8.8 ± 3.0		9.2 ± 3.0		8.2 ± 3.0	
	PCT %*		0.050 ± 0.050		0.233 ± 0.100		0.365 ± 0.200	
	PDW*		15.9 ± 3.0		16.7 ± 3.0		16.5 ± 3.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2003BL	LOT	BC2003BN	LOT	BC2003BH	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.35 \pm 0.50		7.75 \pm 1.00		17.50 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.81 \pm 0.31		4.53 \pm 0.70		11.46 \pm 1.58	
QC Mode	Lym# $\times 10^9/L$		1.21 \pm 0.31		2.17 \pm 0.62		3.24 \pm 1.23	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.15 \pm 0.14		0.39 \pm 0.32		0.88 \pm 0.71	
	Eos# $\times 10^9/L$		0.18 \pm 0.14		0.66 \pm 0.55		1.93 \pm 1.58	
	Bas# $\times 10^9/L$		1.81 \pm 0.34		5.19 \pm 0.78		13.65 \pm 1.75	
	Neu%		54.0 \pm 9.0		58.5 \pm 9.0		65.5 \pm 9.0	
	Lym%		36.0 \pm 9.0		28.0 \pm 8.0		18.5 \pm 7.0	
	Mon%		4.5 \pm 4.0		5.0 \pm 4.0		5.0 \pm 4.0	
	Eos%		5.5 \pm 4.0		8.5 \pm 7.0		11.0 \pm 9.0	
	Bas%		54.0 \pm 10.0		67.0 \pm 10.0		78.0 \pm 10.0	
	RBC $\times 10^{12}/L$		2.12 \pm 0.18		4.24 \pm 0.24		4.80 \pm 0.30	
	HGB g/L		58 \pm 4		128 \pm 6		156 \pm 8	
	HCT %		18.3 \pm 1.5		41.6 \pm 2.0		51.1 \pm 2.4	
	MCV fL		86.5 \pm 5.0		98.0 \pm 5.0		106.5 \pm 5.0	
	MCH pg		27.4 \pm 2.5		30.2 \pm 2.5		32.5 \pm 2.5	
	MCHC g/L		316 \pm 30		308 \pm 30		305 \pm 30	
	RDW-CV %		14.5 \pm 3.0		14.0 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		52.0 \pm 8.0		56.0 \pm 8.0		59.0 \pm 8.0	
	PLT $\times 10^9/L$		47 \pm 20		242 \pm 40		480 \pm 60	
	MPV fL		8.8 \pm 3.0		9.5 \pm 3.0		8.3 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.240 \pm 0.100		0.410 \pm 0.200	
	PDW*		16.0 \pm 3.0		16.8 \pm 3.0		16.6 \pm 3.0	
BC-5000,BC-5150,BC-5120	WBC $\times 10^9/L$		3.30 \pm 0.50		7.50 \pm 1.00		17.25 \pm 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# $\times 10^9/L$		1.61 \pm 0.40		4.29 \pm 0.90		10.90 \pm 2.07	
QC Mode	Lym# $\times 10^9/L$		1.21 \pm 0.30		1.98 \pm 0.60		3.19 \pm 1.21	
	Mon# $\times 10^9/L$		0.29 \pm 0.29		0.60 \pm 0.60		1.40 \pm 1.40	
	Eos# $\times 10^9/L$		0.17 \pm 0.17		0.54 \pm 0.54		1.50 \pm 1.50	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.09 \pm 0.09		0.26 \pm 0.26	
	Neu%		48.7 \pm 12.0		57.2 \pm 12.0		63.2 \pm 12.0	
	Lym%		36.6 \pm 9.0		26.4 \pm 8.0		18.5 \pm 7.0	
	Mon%		8.7 \pm 8.7		8.0 \pm 8.0		8.1 \pm 8.1	
	Eos%		5.2 \pm 5.2		7.2 \pm 7.2		8.7 \pm 8.7	
	Bas%		0.8 \pm 0.8		1.2 \pm 1.2		1.5 \pm 1.5	
	RBC $\times 10^{12}/L$		2.15 \pm 0.18		4.33 \pm 0.24		4.90 \pm 0.30	
	HGB g/L		58 \pm 4		130 \pm 6		161 \pm 8	
	HCT %		18.5 \pm 1.5		41.1 \pm 2.0		50.2 \pm 2.4	
	MCV fL		86.0 \pm 5.0		95.0 \pm 5.0		102.5 \pm 5.0	
	MCH pg		27.0 \pm 2.5		30.0 \pm 2.5		32.9 \pm 2.5	
	MCHC g/L		314 \pm 30		316 \pm 30		321 \pm 30	
	RDW-CV %		17.5 \pm 3.0		16.0 \pm 3.0		15.0 \pm 3.0	
	RDW-SD fL		53.5 \pm 8.0		55.5 \pm 8.0		58.0 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		256 \pm 40		494 \pm 60	
	MPV fL		10.7 \pm 3.0		11.0 \pm 3.0		9.7 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.280 \pm 0.100		0.480 \pm 0.200	
	PDW*		15.6 \pm 3.0		16.7 \pm 3.0		16.6 \pm 3.0	
	P-LCC $\times 10^9/L$ **		15 \pm 15		84 \pm 25		126 \pm 35	
	P-LCR %**		31.5 \pm 10.0		33.0 \pm 10.0		25.5 \pm 10.0	

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

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ASSAY VALUES AND EXPECTED RANGES

LOT

BC2003B



2020-05-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2003BL	LOT	BC2003BN	LOT	BC2003BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.50	± 1.00	17.50	± 2.50	
	Neu# $\times 10^9/L$	1.72	± 0.30	4.58	± 0.68	11.73	± 1.58	
	Lym# $\times 10^9/L$	1.19	± 0.30	2.10	± 0.60	3.33	± 1.41	
	Mon# $\times 10^9/L$	0.15	± 0.14	0.26	± 0.26	0.88	± 0.71	
	Eos# $\times 10^9/L$	0.20	± 0.17	0.56	± 0.45	1.58	± 1.23	
	Neu%	52.8	± 9.0	61.0	± 9.0	67.0	± 9.0	
	Lym%	36.7	± 9.0	28.0	± 8.0	19.0	± 8.0	
	Mon%	4.5	± 4.0	3.5	± 3.5	5.0	± 4.0	
	Eos%	6.0	± 5.0	7.5	± 6.0	9.0	± 7.0	
	RBC $\times 10^{12}/L$	2.12	± 0.18	4.24	± 0.24	4.80	± 0.30	
	HGB g/L	57	± 4	128	± 6	155	± 8	
	HCT %	18.8	± 1.5	42.0	± 2.0	51.6	± 2.4	
	MCV fL	88.5	± 5.0	99.0	± 5.0	107.5	± 5.0	
	MCH pg	26.9	± 2.5	30.2	± 2.5	32.3	± 2.5	
	MCHC g/L	304	± 30	305	± 30	300	± 30	
	RDW-CV %	14.5	± 3.0	13.5	± 3.0	13.3	± 3.0	
	RDW-SD fL	55.5	± 8.0	58.8	± 8.0	62.5	± 8.0	
	PLT $\times 10^9/L$	47	± 20	242	± 40	459	± 60	
	MPV fL	8.8	± 3.0	9.2	± 3.0	8.2	± 3.0	
	PCT %*	0.050	± 0.050	0.223	± 0.100	0.365	± 0.200	
PDW*	15.9	± 3.0	16.7	± 3.0	16.5	± 3.0		

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