

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2005B**2020-07-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2005BL	LOT	BC2005BN	LOT	BC2005BH	
BC-5800,BC-5600	WBC $\times 10^9/L$	3.50	± 0.50	7.90	± 1.00	18.00	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.68	± 0.32	4.38	± 0.72	11.43	± 1.62	
	Lym# $\times 10^9/L$	1.37	± 0.32	2.33	± 0.64	3.51	± 1.44	
	Mon# $\times 10^9/L$	0.26	± 0.21	0.55	± 0.48	1.26	± 1.08	
	Eos# $\times 10^9/L$	0.16	± 0.15	0.55	± 0.48	1.62	± 1.26	
	Bas# $\times 10^9/L$	0.04	± 0.04	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.0	± 9.0	55.5	± 9.0	63.5	± 9.0	
	Lym%	39.0	± 9.0	29.5	± 8.0	19.5	± 8.0	
	Mon%	7.5	± 6.0	7.0	± 6.0	7.0	± 6.0	
	Eos%	4.5	± 4.0	7.0	± 6.0	9.0	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.10	± 0.18	4.17	± 0.24	4.86	± 0.30	
	HGB g/L	57	± 4	131	± 6	164	± 8	
	HCT %	17.5	± 1.5	40.0	± 2.0	50.5	± 2.4	
	MCV fL	83.5	± 5.0	96.0	± 5.0	104.0	± 5.0	
	MCH pg	27.1	± 2.5	31.4	± 2.5	33.7	± 2.5	
	MCHC g/L	325	± 30	327	± 30	324	± 30	
	RDW-CV %	15.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	43.0	± 10.0	48.8	± 10.0	52.2	± 10.0	
	PLT $\times 10^9/L$	50	± 20	250	± 40	495	± 60	
	MPV fL	8.3	± 3.0	10.0	± 3.0	8.2	± 3.0	
	PCT %*	0.050	± 0.050	0.250	± 0.100	0.410	± 0.200	
	PDW*	16.5	± 3.0	16.2	± 3.0	16.5	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	90	± 25	114	± 35	
	P-LCR %	23.0	± 10.0	36.0	± 10.0	23.0	± 10.0	
BC-5390	WBC $\times 10^9/L$	3.35	± 0.50	7.90	± 1.00	17.70	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.73	± 0.31	4.54	± 0.72	11.59	± 1.60	
	Lym# $\times 10^9/L$	1.22	± 0.31	2.25	± 0.64	3.10	± 1.24	
	Mon# $\times 10^9/L$	0.23	± 0.20	0.51	± 0.40	1.33	± 1.07	
	Eos# $\times 10^9/L$	0.17	± 0.14	0.59	± 0.48	1.68	± 1.24	
	Bas# $\times 10^9/L$	0.90	± 0.34	2.27	± 0.80	5.47	± 1.78	
	Neu%	51.5	± 9.0	57.5	± 9.0	65.5	± 9.0	
	Lym%	36.5	± 9.0	28.5	± 8.0	17.5	± 7.0	
	Mon%	7.0	± 6.0	6.5	± 5.0	7.5	± 6.0	
	Eos%	5.0	± 4.0	7.5	± 6.0	9.5	± 7.0	
	Bas%	26.8	± 10.0	28.7	± 10.0	30.9	± 10.0	
	RBC $\times 10^{12}/L$	2.02	± 0.18	4.10	± 0.24	4.84	± 0.30	
	HGB g/L	52	± 4	122	± 6	153	± 8	
	HCT %	16.7	± 1.5	38.1	± 2.0	48.6	± 2.4	
	MCV fL	82.5	± 5.0	93.0	± 5.0	100.5	± 5.0	
	MCH pg	25.7	± 2.5	29.8	± 2.5	31.6	± 2.5	
	MCHC g/L	312	± 30	320	± 30	315	± 30	
	RDW-CV %	14.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	44.0	± 8.0	49.0	± 8.0	50.5	± 8.0	
	PLT $\times 10^9/L$	52	± 20	246	± 40	475	± 60	
	MPV fL	11.2	± 3.0	12.6	± 3.0	10.9	± 3.0	

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BC2005B
2020-07-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2005BL	LOT	BC2005BN	LOT	BC2005BH	
BC-5390 CRP	WBC ×10 ⁹ /L		3.35 ± 0.50		7.80 ± 1.00		17.80 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.71 ± 0.31		4.45 ± 0.71		11.57 ± 1.61	
	Lym# ×10 ⁹ /L		1.21 ± 0.27		2.18 ± 0.63		3.29 ± 1.25	
	Mon# ×10 ⁹ /L		0.25 ± 0.20		0.51 ± 0.40		1.25 ± 0.90	
	Eos# ×10 ⁹ /L		0.18 ± 0.17		0.66 ± 0.47		1.69 ± 1.43	
	Bas# ×10 ⁹ /L		0.90 ± 0.34		2.23 ± 0.78		5.48 ± 1.78	
	Neu%		51.0 ± 9.0		57.0 ± 9.0		65.0 ± 9.0	
	Lym%		36.0 ± 8.0		28.0 ± 8.0		18.5 ± 7.0	
	Mon%		7.5 ± 6.0		6.5 ± 5.0		7.0 ± 5.0	
	Eos%		5.5 ± 5.0		8.5 ± 6.0		9.5 ± 8.0	
	Bas%		27.0 ± 10.0		28.6 ± 10.0		30.8 ± 10.0	
	RBC ×10 ¹² /L		2.03 ± 0.18		4.09 ± 0.24		4.82 ± 0.30	
	HGB g/L		54 ± 4		123 ± 6		154 ± 8	
	HCT %		16.6 ± 1.5		38.4 ± 2.0		48.9 ± 2.4	
	MCV fL		82.0 ± 5.0		94.0 ± 5.0		101.5 ± 5.0	
	MCH pg		26.6 ± 2.5		30.1 ± 2.5		32.0 ± 2.5	
	MCHC g/L		324 ± 30		320 ± 30		315 ± 30	
	RDW-CV %		14.5 ± 3.0		14.0 ± 3.0		14.0 ± 3.0	
	RDW-SD fL		42.5 ± 8.0		46.5 ± 8.0		49.0 ± 8.0	
	PLT ×10 ⁹ /L		50 ± 20		248 ± 40		463 ± 60	
	MPV fL		8.7 ± 3.0		10.1 ± 3.0		8.4 ± 3.0	
	PCT %*		0.050 ± 0.050		0.250 ± 0.100		0.400 ± 0.200	
	PDW*		16.0 ± 3.0		16.5 ± 3.0		16.5 ± 3.0	
	P-LCC ×10 ⁹ /L		15 ± 15		74 ± 25		97 ± 35	
	P-LCR %		22.0 ± 10.0		30.0 ± 10.0		21.0 ± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.35 ± 0.50		7.75 ± 1.00		17.75 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.76 ± 0.31		4.53 ± 0.70		11.80 ± 1.60	
QC Mode	Lym# ×10 ⁹ /L		1.26 ± 0.31		2.21 ± 0.63		3.37 ± 1.42	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.15 ± 0.14		0.39 ± 0.32		0.89 ± 0.72	
	Eos# ×10 ⁹ /L		0.18 ± 0.17		0.62 ± 0.47		1.69 ± 1.43	
	Bas# ×10 ⁹ /L		2.12 ± 0.34		5.54 ± 0.78		13.95 ± 1.78	
	Neu%		52.5 ± 9.0		58.5 ± 9.0		66.5 ± 9.0	
	Lym%		37.5 ± 9.0		28.5 ± 8.0		19.0 ± 8.0	
	Mon%		4.5 ± 4.0		5.0 ± 4.0		5.0 ± 4.0	
	Eos%		5.5 ± 5.0		8.0 ± 6.0		9.5 ± 8.0	
	Bas%		63.2 ± 10.0		71.5 ± 10.0		78.6 ± 10.0	
	RBC ×10 ¹² /L		2.04 ± 0.18		4.12 ± 0.24		4.86 ± 0.30	
	HGB g/L		54 ± 4		124 ± 6		155 ± 8	
	HCT %		17.5 ± 1.5		40.5 ± 2.0		51.2 ± 2.4	
	MCV fL		85.8 ± 5.0		98.3 ± 5.0		105.3 ± 5.0	
	MCH pg		26.5 ± 2.5		30.1 ± 2.5		31.9 ± 2.5	
	MCHC g/L		309 ± 30		306 ± 30		303 ± 30	
	RDW-CV %		14.5 ± 3.0		14.0 ± 3.0		13.8 ± 3.0	
	RDW-SD fL		53.8 ± 8.0		59.5 ± 8.0		62.3 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		236 ± 40		458 ± 60	
	MPV fL		8.8 ± 3.0		10.2 ± 3.0		8.4 ± 3.0	
	PCT %*		0.050 ± 0.050		0.240 ± 0.100		0.393 ± 0.200	
	PDW*		16.4 ± 3.0		16.2 ± 3.0		16.6 ± 3.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2005BL	LOT	BC2005BN	LOT	BC2005BH	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.35 ± 0.50		7.75 ± 1.00		17.55 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.78 ± 0.31		4.53 ± 0.70		11.50 ± 1.59	
QC Mode	Lym# ×10 ⁹ /L		1.24 ± 0.31		2.17 ± 0.62		3.16 ± 1.23	
(Software version 1.24.00.16860 or higher)	Mon# ×10 ⁹ /L		0.15 ± 0.14		0.39 ± 0.32		0.88 ± 0.77	
	Eos# ×10 ⁹ /L		0.18 ± 0.17		0.66 ± 0.55		2.02 ± 1.59	
	Bas# ×10 ⁹ /L		2.11 ± 0.34		5.58 ± 0.78		13.69 ± 1.76	
	Neu%		53.0 ± 9.0		58.5 ± 9.0		65.5 ± 9.0	
	Lym%		37.0 ± 9.0		28.0 ± 8.0		18.0 ± 7.0	
	Mon%		4.5 ± 4.0		5.0 ± 4.0		5.0 ± 4.0	
	Eos%		5.5 ± 5.0		8.5 ± 7.0		11.5 ± 9.0	
	Bas%		63.0 ± 10.0		72.0 ± 10.0		78.0 ± 10.0	
	RBC ×10 ¹² /L		2.05 ± 0.18		4.12 ± 0.24		4.80 ± 0.30	
	HGB g/L		55 ± 4		123 ± 6		154 ± 8	
	HCT %		17.2 ± 1.5		40.0 ± 2.0		50.2 ± 2.4	
	MCV fL		84.0 ± 5.0		97.0 ± 5.0		104.5 ± 5.0	
	MCH pg		26.8 ± 2.5		29.9 ± 2.5		32.1 ± 2.5	
	MCHC g/L		319 ± 30		308 ± 30		307 ± 30	
	RDW-CV %		14.5 ± 3.0		14.0 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		50.5 ± 8.0		56.5 ± 8.0		60.5 ± 8.0	
	PLT ×10 ⁹ /L		47 ± 20		235 ± 40		480 ± 60	
	MPV fL		8.9 ± 3.0		10.5 ± 3.0		8.6 ± 3.0	
	PCT %*		0.050 ± 0.050		0.260 ± 0.100		0.410 ± 0.200	
	PDW*		16.5 ± 3.0		16.3 ± 3.0		16.8 ± 3.0	
BC-5000,BC-5150,BC-5120	WBC ×10 ⁹ /L		3.40 ± 0.50		7.70 ± 1.00		17.35 ± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# ×10 ⁹ /L		1.67 ± 0.41		4.24 ± 0.93		10.83 ± 2.09	
QC Mode	Lym# ×10 ⁹ /L		1.22 ± 0.31		2.11 ± 0.62		3.09 ± 1.22	
	Mon# ×10 ⁹ /L		0.31 ± 0.31		0.69 ± 0.69		1.53 ± 1.53	
	Eos# ×10 ⁹ /L		0.17 ± 0.17		0.56 ± 0.56		1.63 ± 1.63	
	Bas# ×10 ⁹ /L		0.03 ± 0.03		0.10 ± 0.10		0.28 ± 0.28	
	Neu%		49.0 ± 12.0		55.0 ± 12.0		62.4 ± 12.0	
	Lym%		36.0 ± 9.0		27.4 ± 8.0		17.8 ± 7.0	
	Mon%		9.1 ± 9.1		9.0 ± 9.0		8.8 ± 8.8	
	Eos%		5.0 ± 5.0		7.3 ± 7.3		9.4 ± 9.4	
	Bas%		0.9 ± 0.9		1.3 ± 1.3		1.6 ± 1.6	
	RBC ×10 ¹² /L		2.08 ± 0.18		4.16 ± 0.24		4.93 ± 0.30	
	HGB g/L		55 ± 4		125 ± 6		159 ± 8	
	HCT %		17.6 ± 1.5		39.5 ± 2.0		49.8 ± 2.4	
	MCV fL		84.5 ± 5.0		95.0 ± 5.0		101.0 ± 5.0	
	MCH pg		26.4 ± 2.5		30.0 ± 2.5		32.3 ± 2.5	
	MCHC g/L		313 ± 30		316 ± 30		319 ± 30	
	RDW-CV %		17.3 ± 3.0		16.5 ± 3.0		16.5 ± 3.0	
	RDW-SD fL		52.5 ± 8.0		57.5 ± 8.0		60.5 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		245 ± 40		488 ± 60	
	MPV fL		10.2 ± 3.0		12.0 ± 3.0		9.9 ± 3.0	
	PCT %*		0.050 ± 0.050		0.300 ± 0.100		0.480 ± 0.200	
	PDW*		16.0 ± 3.0		16.2 ± 3.0		16.8 ± 3.0	
	P-LCC ×10 ⁹ /L**		15 ± 15		98 ± 25		131 ± 35	
	P-LCR %**		30.0 ± 10.0		40.0 ± 10.0		27.0 ± 10.0	

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

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2020-07-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2005BL	LOT	BC2005BN	LOT	BC2005BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC ×10 ⁹ /L	3.35	± 0.50	7.75	± 1.00	17.75	± 2.50	
	Neu# ×10 ⁹ /L	1.76	± 0.31	4.53	± 0.70	11.80	± 1.60	
	Lym# ×10 ⁹ /L	1.26	± 0.31	2.21	± 0.63	3.37	± 1.42	
	Mon# ×10 ⁹ /L	0.15	± 0.14	0.39	± 0.32	0.89	± 0.72	
	Eos# ×10 ⁹ /L	0.18	± 0.17	0.62	± 0.47	1.69	± 1.43	
	Neu%	52.5	± 9.0	58.5	± 9.0	66.5	± 9.0	
	Lym%	37.5	± 9.0	28.5	± 8.0	19.0	± 8.0	
	Mon%	4.5	± 4.0	5.0	± 4.0	5.0	± 4.0	
	Eos%	5.5	± 5.0	8.0	± 6.0	9.5	± 8.0	
	RBC ×10 ¹² /L	2.04	± 0.18	4.12	± 0.24	4.86	± 0.30	
	HGB g/L	54	± 4	124	± 6	155	± 8	
	HCT %	17.5	± 1.5	40.5	± 2.0	51.2	± 2.4	
	MCV fL	85.8	± 5.0	98.3	± 5.0	105.3	± 5.0	
	MCH pg	26.5	± 2.5	30.1	± 2.5	31.9	± 2.5	
	MCHC g/L	309	± 30	306	± 30	303	± 30	
	RDW-CV %	14.5	± 3.0	14.0	± 3.0	13.8	± 3.0	
	RDW-SD fL	53.8	± 8.0	59.5	± 8.0	62.3	± 8.0	
	PLT ×10 ⁹ /L	48	± 20	236	± 40	458	± 60	
	MPV fL	8.8	± 3.0	10.2	± 3.0	8.4	± 3.0	
	PCT %*	0.050	± 0.050	0.240	± 0.100	0.393	± 0.200	
PDW*	16.4	± 3.0	16.2	± 3.0	16.6	± 3.0		

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