

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2009B**2020-11-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2009BL	LOT	BC2009BN	LOT	BC2009BH	
BC-5800,BC-5600	WBC $\times 10^9/L$		3.42 \pm 0.50		7.94 \pm 1.00		17.63 \pm 2.50	
QC Mode	Neu# $\times 10^9/L$		1.62 \pm 0.31		4.37 \pm 0.72		11.11 \pm 1.59	
	Lym# $\times 10^9/L$		1.30 \pm 0.31		2.30 \pm 0.64		3.35 \pm 1.41	
	Mon# $\times 10^9/L$		0.26 \pm 0.21		0.64 \pm 0.48		1.34 \pm 1.06	
	Eos# $\times 10^9/L$		0.20 \pm 0.14		0.56 \pm 0.48		1.66 \pm 1.24	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.18 \pm 0.18	
	Neu%		47.5 \pm 9.0		55.0 \pm 9.0		63.0 \pm 9.0	
	Lym%		38.0 \pm 9.0		29.0 \pm 8.0		19.0 \pm 8.0	
	Mon%		7.6 \pm 6.0		8.0 \pm 6.0		7.6 \pm 6.0	
	Eos%		5.9 \pm 4.0		7.0 \pm 6.0		9.4 \pm 7.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.26 \pm 0.18		4.25 \pm 0.24		5.00 \pm 0.30	
	HGB g/L		60 \pm 4		135 \pm 6		172 \pm 8	
	HCT %		18.1 \pm 1.5		40.6 \pm 2.0		52.5 \pm 2.4	
	MCV fL		80.2 \pm 5.0		95.6 \pm 5.0		105.0 \pm 5.0	
	MCH pg		26.5 \pm 2.5		31.8 \pm 2.5		34.4 \pm 2.5	
	MCHC g/L		331 \pm 30		332 \pm 30		328 \pm 30	
	RDW-CV %		16.0 \pm 3.0		14.0 \pm 3.0		13.4 \pm 3.0	
	RDW-SD fL		47.7 \pm 10.0		49.7 \pm 10.0		52.5 \pm 10.0	
	PLT $\times 10^9/L$		53 \pm 20		252 \pm 40		520 \pm 60	
	MPV fL		8.0 \pm 3.0		8.9 \pm 3.0		9.5 \pm 3.0	
	PCT %*		0.046 \pm 0.046		0.224 \pm 0.100		0.494 \pm 0.200	
	PDW*		16.0 \pm 3.0		16.4 \pm 3.0		16.6 \pm 3.0	
	P-LCC $\times 10^9/L$		13 \pm 13		66 \pm 25		165 \pm 35	
	P-LCR %		22.2 \pm 10.0		26.3 \pm 10.0		31.9 \pm 10.0	
BC-5390	WBC $\times 10^9/L$		3.30 \pm 0.50		8.00 \pm 1.00		17.40 \pm 2.50	
QC Mode	Neu# $\times 10^9/L$		1.65 \pm 0.30		4.56 \pm 0.72		11.31 \pm 1.57	
	Lym# $\times 10^9/L$		1.20 \pm 0.30		2.20 \pm 0.64		2.96 \pm 1.22	
	Mon# $\times 10^9/L$		0.23 \pm 0.20		0.56 \pm 0.48		1.31 \pm 1.05	
	Eos# $\times 10^9/L$		0.21 \pm 0.17		0.68 \pm 0.56		1.83 \pm 1.40	
	Bas# $\times 10^9/L$		0.85 \pm 0.34		2.26 \pm 0.80		5.38 \pm 1.75	
	Neu%		50.0 \pm 9.0		57.0 \pm 9.0		65.0 \pm 9.0	
	Lym%		36.5 \pm 9.0		27.5 \pm 8.0		17.0 \pm 7.0	
	Mon%		7.0 \pm 6.0		7.0 \pm 6.0		7.5 \pm 6.0	
	Eos%		6.5 \pm 5.0		8.5 \pm 7.0		10.5 \pm 8.0	
	Bas%		25.7 \pm 10.0		28.3 \pm 10.0		30.9 \pm 10.0	
	RBC $\times 10^{12}/L$		2.17 \pm 0.18		4.21 \pm 0.24		4.92 \pm 0.30	
	HGB g/L		54 \pm 4		125 \pm 6		159 \pm 8	
	HCT %		17.3 \pm 1.5		39.4 \pm 2.0		50.7 \pm 2.4	
	MCV fL		79.5 \pm 5.0		93.5 \pm 5.0		103.0 \pm 5.0	
	MCH pg		24.9 \pm 2.5		29.7 \pm 2.5		32.3 \pm 2.5	
	MCHC g/L		313 \pm 30		318 \pm 30		314 \pm 30	
	RDW-CV %		15.5 \pm 3.0		13.5 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		48.5 \pm 8.0		50.0 \pm 8.0		51.0 \pm 8.0	
	PLT $\times 10^9/L$		51 \pm 20		240 \pm 40		494 \pm 60	
	MPV fL		11.3 \pm 3.0		11.8 \pm 3.0		12.2 \pm 3.0	

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ASSAY VALUES AND EXPECTED RANGES


BC2009B
2020-11-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2009BL	LOT	BC2009BN	LOT	BC2009BH	
BC-5390 CRP	WBC ×10 ⁹ /L	3.26	± 0.50	7.85	± 1.00	17.42	± 2.50	
QC Mode	Neu# ×10 ⁹ /L	1.62	± 0.30	4.47	± 0.71	11.27	± 1.57	
	Lym# ×10 ⁹ /L	1.21	± 0.30	2.19	± 0.63	3.12	± 1.40	
	Mon# ×10 ⁹ /L	0.22	± 0.20	0.55	± 0.48	1.20	± 0.87	
	Eos# ×10 ⁹ /L	0.22	± 0.20	0.64	± 0.48	1.83	± 1.40	
	Bas# ×10 ⁹ /L	0.83	± 0.33	2.20	± 0.79	5.37	± 1.75	
	Neu%	49.6	± 9.0	57.0	± 9.0	64.7	± 9.0	
	Lym%	37.0	± 9.0	27.9	± 8.0	17.9	± 8.0	
	Mon%	6.7	± 6.0	7.0	± 6.0	6.9	± 5.0	
	Eos%	6.7	± 6.0	8.1	± 6.0	10.5	± 8.0	
	Bas%	25.6	± 10.0	28.0	± 10.0	30.8	± 10.0	
	RBC ×10 ¹² /L	2.19	± 0.18	4.19	± 0.24	4.95	± 0.30	
	HGB g/L	55	± 4	125	± 6	160	± 8	
	HCT %	17.1	± 1.5	39.1	± 2.0	50.8	± 2.4	
	MCV fL	78.0	± 5.0	93.2	± 5.0	102.7	± 5.0	
	MCH pg	25.1	± 2.5	29.8	± 2.5	32.3	± 2.5	
	MCHC g/L	322	± 30	320	± 30	315	± 30	
	RDW-CV %	15.5	± 3.0	14.2	± 3.0	13.7	± 3.0	
	RDW-SD fL	46.5	± 8.0	48.0	± 8.0	50.0	± 8.0	
	PLT ×10 ⁹ /L	48	± 20	244	± 40	501	± 60	
	MPV fL	8.7	± 3.0	9.5	± 3.0	10.0	± 3.0	
	PCT %*	0.045	± 0.045	0.238	± 0.100	0.514	± 0.200	
	PDW*	15.4	± 3.0	16.4	± 3.0	16.7	± 3.0	
	P-LCC ×10 ⁹ /L	12	± 12	57	± 25	149	± 35	
	P-LCR %	20.0	± 10.0	23.8	± 10.0	30.1	± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L	3.20	± 0.50	7.75	± 1.00	17.40	± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L	1.61	± 0.29	4.46	± 0.70	11.40	± 1.57	
QC Mode	Lym# ×10 ⁹ /L	1.20	± 0.29	2.17	± 0.62	3.17	± 1.40	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L	0.16	± 0.13	0.47	± 0.40	0.96	± 0.88	
	Eos# ×10 ⁹ /L	0.23	± 0.19	0.66	± 0.47	1.88	± 1.40	
	Bas# ×10 ⁹ /L	1.90	± 0.32	5.39	± 0.78	13.66	± 1.75	
	Neu%	50.2	± 9.0	57.5	± 9.0	65.5	± 9.0	
	Lym%	37.5	± 9.0	28.0	± 8.0	18.2	± 8.0	
	Mon%	5.0	± 4.0	6.0	± 5.0	5.5	± 5.0	
	Eos%	7.3	± 6.0	8.5	± 6.0	10.8	± 8.0	
	Bas%	59.5	± 10.0	69.6	± 10.0	78.5	± 10.0	
	RBC ×10 ¹² /L	2.20	± 0.18	4.23	± 0.24	4.95	± 0.30	
	HGB g/L	56	± 4	125	± 6	160	± 8	
	HCT %	18.3	± 1.5	41.5	± 2.0	53.4	± 2.4	
	MCV fL	83.0	± 5.0	98.0	± 5.0	107.8	± 5.0	
	MCH pg	25.5	± 2.5	29.6	± 2.5	32.3	± 2.5	
	MCHC g/L	307	± 30	302	± 30	300	± 30	
	RDW-CV %	15.5	± 3.0	13.7	± 3.0	13.3	± 3.0	
	RDW-SD fL	58.3	± 8.0	60.5	± 8.0	63.3	± 8.0	
	PLT ×10 ⁹ /L	48	± 20	232	± 40	470	± 60	
	MPV fL	8.8	± 3.0	9.2	± 3.0	9.6	± 3.0	
	PCT %*	0.050	± 0.050	0.213	± 0.100	0.448	± 0.200	
	PDW*	15.7	± 3.0	16.4	± 3.0	16.6	± 3.0	

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BC2009B**2020-11-10**

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2009BL	LOT	BC2009BN	LOT	BC2009BH	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.21 \pm 0.50		7.81 \pm 1.00		17.23 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.61 \pm 0.29		4.48 \pm 0.71		11.29 \pm 1.56	
QC Mode	Lym# $\times 10^9/L$		1.20 \pm 0.29		2.16 \pm 0.63		3.14 \pm 1.39	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.16 \pm 0.13		0.47 \pm 0.40		0.91 \pm 0.86	
	Eos# $\times 10^9/L$		0.24 \pm 0.20		0.70 \pm 0.55		1.90 \pm 1.56	
	Bas# $\times 10^9/L$		1.88 \pm 0.33		5.42 \pm 0.79		13.65 \pm 1.73	
	Neu%		50.2 \pm 9.0		57.4 \pm 9.0		65.5 \pm 9.0	
	Lym%		37.3 \pm 9.0		27.6 \pm 8.0		18.2 \pm 8.0	
	Mon%		5.0 \pm 4.0		6.0 \pm 5.0		5.3 \pm 5.0	
	Eos%		7.5 \pm 6.0		9.0 \pm 7.0		11.0 \pm 9.0	
	Bas%		58.5 \pm 10.0		69.4 \pm 10.0		79.2 \pm 10.0	
	RBC $\times 10^{12}/L$		2.16 \pm 0.18		4.16 \pm 0.24		4.90 \pm 0.30	
	HGB g/L		55 \pm 4		125 \pm 6		160 \pm 8	
	HCT %		17.3 \pm 1.5		40.0 \pm 2.0		51.8 \pm 2.4	
	MCV fL		80.2 \pm 5.0		96.2 \pm 5.0		105.8 \pm 5.0	
	MCH pg		25.5 \pm 2.5		30.0 \pm 2.5		32.7 \pm 2.5	
	MCHC g/L		317 \pm 30		312 \pm 30		309 \pm 30	
	RDW-CV %		15.5 \pm 3.0		13.5 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		54.9 \pm 8.0		57.0 \pm 8.0		60.0 \pm 8.0	
	PLT $\times 10^9/L$		46 \pm 20		237 \pm 40		490 \pm 60	
	MPV fL		8.2 \pm 3.0		9.1 \pm 3.0		9.6 \pm 3.0	
	PCT %*		0.044 \pm 0.044		0.217 \pm 0.100		0.468 \pm 0.200	
	PDW*		15.6 \pm 3.0		16.5 \pm 3.0		16.8 \pm 3.0	
BC-5000,BC-5150,BC-5120	WBC $\times 10^9/L$		3.29 \pm 0.50		7.69 \pm 1.00		17.00 \pm 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# $\times 10^9/L$		1.56 \pm 0.40		4.19 \pm 0.93		10.61 \pm 2.05	
QC Mode	Lym# $\times 10^9/L$		1.20 \pm 0.30		2.08 \pm 0.62		2.89 \pm 1.19	
	Mon# $\times 10^9/L$		0.29 \pm 0.29		0.74 \pm 0.74		1.53 \pm 1.53	
	Eos# $\times 10^9/L$		0.20 \pm 0.20		0.58 \pm 0.58		1.67 \pm 1.67	
	Bas# $\times 10^9/L$		0.04 \pm 0.04		0.11 \pm 0.11		0.31 \pm 0.31	
	Neu%		47.5 \pm 12.0		54.5 \pm 12.0		62.4 \pm 12.0	
	Lym%		36.4 \pm 9.0		27.0 \pm 8.0		17.0 \pm 7.0	
	Mon%		8.8 \pm 8.8		9.6 \pm 9.6		9.0 \pm 9.0	
	Eos%		6.2 \pm 6.2		7.5 \pm 7.5		9.8 \pm 9.8	
	Bas%		1.1 \pm 1.1		1.4 \pm 1.4		1.8 \pm 1.8	
	RBC $\times 10^{12}/L$		2.20 \pm 0.18		4.26 \pm 0.24		5.03 \pm 0.30	
	HGB g/L		56 \pm 4		128 \pm 6		165 \pm 8	
	HCT %		17.9 \pm 1.5		40.9 \pm 2.0		52.3 \pm 2.4	
	MCV fL		81.5 \pm 5.0		96.0 \pm 5.0		104.0 \pm 5.0	
	MCH pg		25.5 \pm 2.5		30.0 \pm 2.5		32.8 \pm 2.5	
	MCHC g/L		312 \pm 30		313 \pm 30		315 \pm 30	
	RDW-CV %		18.5 \pm 3.0		16.0 \pm 3.0		15.7 \pm 3.0	
	RDW-SD fL		57.0 \pm 8.0		57.4 \pm 8.0		59.5 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		246 \pm 40		510 \pm 60	
	MPV fL		10.0 \pm 3.0		11.0 \pm 3.0		11.4 \pm 3.0	
	PCT %*		0.048 \pm 0.048		0.271 \pm 0.100		0.584 \pm 0.200	
	PDW*		15.3 \pm 3.0		16.5 \pm 3.0		16.9 \pm 3.0	
	P-LCC $\times 10^9/L$ **		14 \pm 14		77 \pm 25		181 \pm 35	
	P-LCR %**		27.7 \pm 10.0		31.3 \pm 10.0		35.4 \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

BC2009B**2020-11-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2009BL	LOT	BC2009BN	LOT	BC2009BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC ×10 ⁹ /L		3.20 ± 0.50		7.75 ± 1.00		17.40 ± 2.50	
	Neu# ×10 ⁹ /L		1.61 ± 0.29		4.46 ± 0.70		11.40 ± 1.57	
	Lym# ×10 ⁹ /L		1.20 ± 0.29		2.17 ± 0.62		3.17 ± 1.40	
	Mon# ×10 ⁹ /L		0.16 ± 0.13		0.47 ± 0.40		0.96 ± 0.88	
	Eos# ×10 ⁹ /L		0.23 ± 0.19		0.66 ± 0.47		1.88 ± 1.40	
	Neu%		50.2 ± 9.0		57.5 ± 9.0		65.5 ± 9.0	
	Lym%		37.5 ± 9.0		28.0 ± 8.0		18.2 ± 8.0	
	Mon%		5.0 ± 4.0		6.0 ± 5.0		5.5 ± 5.0	
	Eos%		7.3 ± 6.0		8.5 ± 6.0		10.8 ± 8.0	
	RBC ×10 ¹² /L		2.20 ± 0.18		4.23 ± 0.24		4.95 ± 0.30	
	HGB g/L		56 ± 4		125 ± 6		160 ± 8	
	HCT %		18.3 ± 1.5		41.5 ± 2.0		53.4 ± 2.4	
	MCV fL		83.0 ± 5.0		98.0 ± 5.0		107.8 ± 5.0	
	MCH pg		25.5 ± 2.5		29.6 ± 2.5		32.3 ± 2.5	
	MCHC g/L		307 ± 30		302 ± 30		300 ± 30	
	RDW-CV %		15.5 ± 3.0		13.7 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		58.3 ± 8.0		60.5 ± 8.0		63.3 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		232 ± 40		470 ± 60	
	MPV fL		8.8 ± 3.0		9.2 ± 3.0		9.6 ± 3.0	
	PCT %*		0.050 ± 0.050		0.213 ± 0.100		0.448 ± 0.200	
PDW*		15.7 ± 3.0		16.4 ± 3.0		16.6 ± 3.0		

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