

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2311B

2024-01-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2311BL	LOT	BC2311BN	LOT	BC2311BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.43	± 0.50	7.89	± 1.00	18.21	± 2.50	
	Neu# $\times 10^9/L$	1.66	± 0.31	4.41	± 0.71	11.48	± 1.64	
	Lym# $\times 10^9/L$	1.31	± 0.31	2.35	± 0.63	3.71	± 1.45	
	Mon# $\times 10^9/L$	0.28	± 0.21	0.55	± 0.39	1.18	± 0.91	
	Eos# $\times 10^9/L$	0.15	± 0.10	0.50	± 0.39	1.66	± 1.28	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.2	± 9.0	55.8	± 9.0	63.0	± 9.0	
	Lym%	38.2	± 9.0	29.8	± 8.0	20.4	± 8.0	
	Mon%	8.1	± 6.0	7.0	± 5.0	6.5	± 5.0	
	Eos%	4.5	± 3.0	6.4	± 5.0	9.1	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.07	± 0.18	4.14	± 0.24	4.93	± 0.30	
	HGB g/L	57	± 4	130	± 6	166	± 8	
	HCT %	17.6	± 1.5	39.2	± 2.0	51.4	± 2.4	
	MCV fL	85.1	± 5.0	94.7	± 5.0	104.3	± 5.0	
	MCH pg	27.5	± 2.5	31.4	± 2.5	33.7	± 2.5	
	MCHC g/L	324	± 30	332	± 30	323	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	47.1	± 10.0	48.7	± 10.0	51.0	± 10.0	
	PLT $\times 10^9/L$	60	± 20	253	± 40	503	± 60	
	MPV fL	7.7	± 3.0	9.2	± 3.0	9.2	± 3.0	
	PCT %*	0.046	± 0.046	0.233	± 0.100	0.463	± 0.200	
	PDW*	16.5	± 3.0	16.1	± 3.0	16.7	± 3.0	
	P-LCC $\times 10^9/L$	11	± 11	67	± 25	141	± 35	
	P-LCR %	19.0	± 10.0	26.6	± 10.0	28.1	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.70	± 1.00	17.50	± 2.50	
	Neu# $\times 10^9/L$	1.64	± 0.30	4.43	± 0.70	11.38	± 1.58	
	Lym# $\times 10^9/L$	1.17	± 0.30	2.16	± 0.70	3.24	± 1.41	
	Mon# $\times 10^9/L$	0.26	± 0.20	0.46	± 0.39	1.05	± 0.89	
	Eos# $\times 10^9/L$	0.18	± 0.14	0.65	± 0.46	1.84	± 1.41	
	Bas# $\times 10^9/L$	0.86	± 0.33	2.12	± 0.78	5.34	± 1.76	
	Neu%	50.5	± 9.0	57.5	± 9.0	65.0	± 9.0	
	Lym%	36.0	± 9.0	28.0	± 9.0	18.5	± 8.0	
	Mon%	8.0	± 6.0	6.0	± 5.0	6.0	± 5.0	
	Eos%	5.5	± 4.0	8.5	± 6.0	10.5	± 8.0	
	Bas%	26.5	± 10.0	27.5	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.01	± 0.18	4.11	± 0.24	4.91	± 0.30	
	HGB g/L	52	± 4	121	± 6	155	± 8	
	HCT %	16.8	± 1.5	38.2	± 2.0	49.8	± 2.4	
	MCV fL	83.5	± 5.0	93.0	± 5.0	101.5	± 5.0	
	MCH pg	25.9	± 2.5	29.4	± 2.5	31.6	± 2.5	
	MCHC g/L	310	± 30	317	± 30	311	± 30	
	RDW-CV %	15.0	± 3.0	13.5	± 3.0	13.5	± 3.0	
	RDW-SD fL	48.5	± 8.0	49.0	± 8.0	50.5	± 8.0	
	PLT $\times 10^9/L$	59	± 20	251	± 40	492	± 60	
	MPV fL	10.8	± 3.0	12.1	± 3.0	11.9	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2311BL	LOT	BC2311BN	LOT	BC2311BH	
BC-5390 CRP	WBC ×10 ⁹ /L	3.26	± 0.50	7.69	± 1.00	17.45	± 2.50	
BC-5310 CRP	Neu# ×10 ⁹ /L	1.66	± 0.30	4.38	± 0.70	11.27	± 1.58	
QC Mode	Lym# ×10 ⁹ /L	1.20	± 0.30	2.21	± 0.62	3.39	± 1.40	
	Mon# ×10 ⁹ /L	0.23	± 0.17	0.45	± 0.39	0.92	± 0.70	
	Eos# ×10 ⁹ /L	0.17	± 0.13	0.65	± 0.46	1.87	± 1.40	
	Bas# ×10 ⁹ /L	0.86	± 0.33	2.15	± 0.78	5.32	± 1.75	
	Neu%	50.7	± 9.0	57.0	± 9.0	64.6	± 9.0	
	Lym%	36.9	± 9.0	28.7	± 8.0	19.4	± 8.0	
	Mon%	7.1	± 5.0	5.8	± 5.0	5.3	± 4.0	
	Eos%	5.3	± 4.0	8.5	± 6.0	10.7	± 8.0	
	Bas%	26.3	± 10.0	27.9	± 10.0	30.5	± 10.0	
	RBC ×10 ¹² /L	2.02	± 0.18	4.11	± 0.24	4.91	± 0.30	
	HGB g/L	53	± 4	121	± 6	155	± 8	
	HCT %	16.7	± 1.5	38.2	± 2.0	50.2	± 2.4	
	MCV fL	82.7	± 5.0	93.0	± 5.0	102.3	± 5.0	
	MCH pg	26.2	± 2.5	29.4	± 2.5	31.6	± 2.5	
	MCHC g/L	317	± 30	317	± 30	309	± 30	
	RDW-CV %	15.7	± 3.0	14.3	± 3.0	13.8	± 3.0	
	RDW-SD fL	46.2	± 8.0	47.4	± 8.0	49.8	± 8.0	
	PLT ×10 ⁹ /L	53	± 20	245	± 40	490	± 60	
	MPV fL	8.8	± 3.0	10.0	± 3.0	9.9	± 3.0	
	PCT %*	0.047	± 0.047	0.245	± 0.100	0.485	± 0.200	
	PDW*	16.4	± 3.0	16.2	± 3.0	16.7	± 3.0	
	P-LCC ×10 ⁹ /L	10	± 10	64	± 25	131	± 35	
	P-LCR %	19.6	± 10.0	26.0	± 10.0	26.8	± 10.0	
BC-5300, BC-5100	WBC ×10 ⁹ /L	3.20	± 0.50	7.53	± 1.00	17.48	± 2.50	
BC-5380, BC-5180	Neu# ×10 ⁹ /L	1.70	± 0.29	4.48	± 0.68	11.54	± 1.58	
QC Mode	Lym# ×10 ⁹ /L	1.23	± 0.29	2.18	± 0.68	3.50	± 1.40	
	Mon# ×10 ⁹ /L	0.11	± 0.11	0.26	± 0.26	0.52	± 0.52	
	Eos# ×10 ⁹ /L	0.16	± 0.13	0.60	± 0.45	1.92	± 1.40	
	Bas# ×10 ⁹ /L	1.95	± 0.33	5.11	± 0.76	13.42	± 1.75	
	Neu%	53.0	± 9.0	59.5	± 9.0	66.0	± 9.0	
	Lym%	38.5	± 9.0	29.0	± 9.0	20.0	± 8.0	
	Mon%	3.5	± 3.5	3.5	± 3.5	3.0	± 3.0	
	Eos%	5.0	± 4.0	8.0	± 6.0	11.0	± 8.0	
	Bas%	60.8	± 10.0	67.8	± 10.0	76.8	± 10.0	
	RBC ×10 ¹² /L	2.02	± 0.18	4.08	± 0.24	4.85	± 0.30	
	HGB g/L	53	± 4	120	± 6	154	± 8	
	HCT %	17.4	± 1.5	39.5	± 2.0	51.7	± 2.4	
	MCV fL	86.2	± 5.0	96.8	± 5.0	106.5	± 5.0	
	MCH pg	26.2	± 2.5	29.4	± 2.5	31.8	± 2.5	
	MCHC g/L	304	± 30	304	± 30	298	± 30	
	RDW-CV %	15.5	± 3.0	13.8	± 3.0	13.3	± 3.0	
	RDW-SD fL	59.0	± 8.0	60.8	± 8.0	62.5	± 8.0	
	PLT ×10 ⁹ /L	54	± 20	238	± 40	467	± 60	
	MPV fL	8.4	± 3.0	9.7	± 3.0	9.4	± 3.0	
	PCT %*	0.045	± 0.045	0.228	± 0.100	0.439	± 0.200	
	PDW*	16.5	± 3.0	16.1	± 3.0	16.6	± 3.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2311BL	LOT	BC2311BN	LOT	BC2311BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.22	± 0.50	7.54	± 1.00	17.27	± 2.50	
	Neu# $\times 10^9/L$	1.69	± 0.30	4.46	± 0.68	11.37	± 1.56	
	Lym# $\times 10^9/L$	1.24	± 0.30	2.21	± 0.68	3.45	± 1.38	
	Mon# $\times 10^9/L$	0.11	± 0.10	0.23	± 0.23	0.52	± 0.52	
	Eos# $\times 10^9/L$	0.18	± 0.13	0.64	± 0.46	1.93	± 1.56	
	Bas# $\times 10^9/L$	1.97	± 0.33	5.13	± 0.76	13.37	± 1.73	
	Neu%	52.4	± 9.0	59.2	± 9.0	65.8	± 9.0	
	Lym%	38.4	± 9.0	29.3	± 9.0	20.0	± 8.0	
	Mon%	3.5	± 3.0	3.0	± 3.0	3.0	± 3.0	
	Eos%	5.7	± 4.0	8.5	± 6.0	11.2	± 9.0	
	Bas%	61.3	± 10.0	68.1	± 10.0	77.4	± 10.0	
	RBC $\times 10^{12}/L$	2.04	± 0.18	4.08	± 0.24	4.84	± 0.30	
	HGB g/L	54	± 4	121	± 6	155	± 8	
	HCT %	17.2	± 1.5	38.6	± 2.0	50.4	± 2.4	
	MCV fL	84.5	± 5.0	94.6	± 5.0	104.1	± 5.0	
	MCH pg	26.5	± 2.5	29.7	± 2.5	32.0	± 2.5	
	MCHC g/L	313	± 30	313	± 30	308	± 30	
	RDW-CV %	15.6	± 3.0	14.2	± 3.0	13.7	± 3.0	
	RDW-SD fL	55.3	± 8.0	57.0	± 8.0	60.1	± 8.0	
	PLT $\times 10^9/L$	56	± 20	247	± 40	485	± 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL	8.2	± 3.0	9.4	± 3.0	9.3	± 3.0	
	PCT %*	0.046	± 0.046	0.232	± 0.100	0.451	± 0.200	
	PDW*	16.6	± 3.0	16.2	± 3.0	16.7	± 3.0	
	WBC $\times 10^9/L$	3.34	± 0.50	7.77	± 1.00	17.71	± 2.50	
	Neu# $\times 10^9/L$	1.62	± 0.41	4.26	± 0.94	11.03	± 2.13	
	Lym# $\times 10^9/L$	1.26	± 0.30	2.21	± 0.63	3.33	± 1.24	
	Mon# $\times 10^9/L$	0.26	± 0.26	0.54	± 0.54	1.19	± 1.19	
	Eos# $\times 10^9/L$	0.17	± 0.17	0.65	± 0.65	1.84	± 1.84	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.11	± 0.11	0.32	± 0.32	
	Neu%	48.2	± 12.0	54.9	± 12.0	62.3	± 12.0	
	Lym%	37.8	± 9.0	28.4	± 8.0	18.8	± 7.0	
	Mon%	7.8	± 7.8	6.9	± 6.9	6.7	± 6.7	
	Eos%	5.2	± 5.2	8.4	± 8.4	10.4	± 10.4	
	Bas%	1.0	± 1.0	1.4	± 1.4	1.8	± 1.8	
	RBC $\times 10^{12}/L$	2.06	± 0.18	4.17	± 0.24	4.98	± 0.30	
	HGB g/L	54	± 4	123	± 6	160	± 8	
	HCT %	17.3	± 1.5	38.7	± 2.0	50.0	± 2.4	
	MCV fL	83.9	± 5.0	92.9	± 5.0	100.5	± 5.0	
	MCH pg	26.2	± 2.5	29.5	± 2.5	32.1	± 2.5	
	MCHC g/L	312	± 30	318	± 30	320	± 30	
	RDW-CV %	18.8	± 3.0	16.7	± 3.0	15.7	± 3.0	
	RDW-SD fL	58.0	± 8.0	56.8	± 8.0	58.7	± 8.0	
	PLT $\times 10^9/L$	59	± 20	251	± 40	513	± 60	
	MPV fL	9.8	± 3.0	11.4	± 3.0	11.1	± 3.0	
	PCT %*	0.058	± 0.058	0.286	± 0.100	0.569	± 0.200	
	PDW*	16.1	± 3.0	16.2	± 3.0	16.8	± 3.0	
	P-LCC $\times 10^9/L$ **	16	± 16	90	± 25	176	± 35	
	P-LCR %**	27.0	± 10.0	35.9	± 10.0	34.4	± 10.0	

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

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LOT

BC2311B

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Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2311BL	LOT	BC2311BN	LOT	BC2311BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC ×10 ⁹ /L		3.20 ± 0.50		7.53 ± 1.00		17.48 ± 2.50	
	Neu# ×10 ⁹ /L		1.70 ± 0.29		4.48 ± 0.68		11.54 ± 1.58	
	Lym# ×10 ⁹ /L		1.23 ± 0.29		2.18 ± 0.68		3.50 ± 1.40	
	Mon# ×10 ⁹ /L		0.11 ± 0.11		0.26 ± 0.26		0.52 ± 0.52	
	Eos# ×10 ⁹ /L		0.16 ± 0.13		0.60 ± 0.45		1.92 ± 1.40	
	Neu%		53.0 ± 9.0		59.5 ± 9.0		66.0 ± 9.0	
	Lym%		38.5 ± 9.0		29.0 ± 9.0		20.0 ± 8.0	
	Mon%		3.5 ± 3.5		3.5 ± 3.5		3.0 ± 3.0	
	Eos%		5.0 ± 4.0		8.0 ± 6.0		11.0 ± 8.0	
	RBC ×10 ¹² /L		2.02 ± 0.18		4.08 ± 0.24		4.85 ± 0.30	
	HGB g/L		53 ± 4		120 ± 6		154 ± 8	
	HCT %		17.4 ± 1.5		39.5 ± 2.0		51.7 ± 2.4	
	MCV fL		86.2 ± 5.0		96.8 ± 5.0		106.5 ± 5.0	
	MCH pg		26.2 ± 2.5		29.4 ± 2.5		31.8 ± 2.5	
	MCHC g/L		304 ± 30		304 ± 30		298 ± 30	
	RDW-CV %		15.5 ± 3.0		13.8 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		59.0 ± 8.0		60.8 ± 8.0		62.5 ± 8.0	
	PLT ×10 ⁹ /L		54 ± 20		238 ± 40		467 ± 60	
	MPV fL		8.4 ± 3.0		9.7 ± 3.0		9.4 ± 3.0	
	PCT %*		0.045 ± 0.045		0.228 ± 0.100		0.439 ± 0.200	
	PDW*		16.5 ± 3.0		16.1 ± 3.0		16.6 ± 3.0	

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