

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2111B



2022-01-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2111BL	LOT	BC2111BN	LOT	BC2111BH	
BC-5800,BC-5600	WBC ×10 ⁹ /L	3.42	± 0.50	7.93	± 1.00	18.05	± 2.50	
QC Mode	Neu# ×10 ⁹ /L	1.61	± 0.31	4.39	± 0.72	11.53	± 1.63	
	Lym# ×10 ⁹ /L	1.34	± 0.31	2.35	± 0.64	3.45	± 1.45	
	Mon# ×10 ⁹ /L	0.26	± 0.21	0.57	± 0.48	1.26	± 0.90	
	Eos# ×10 ⁹ /L	0.17	± 0.14	0.55	± 0.48	1.62	± 1.44	
	Bas# ×10 ⁹ /L	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	47.1	± 9.0	55.3	± 9.0	63.9	± 9.0	
	Lym%	39.3	± 9.0	29.6	± 8.0	19.1	± 8.0	
	Mon%	7.5	± 6.0	7.2	± 6.0	7.0	± 5.0	
	Eos%	5.1	± 4.0	6.9	± 6.0	9.0	± 8.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC ×10 ¹² /L	2.17	± 0.18	4.19	± 0.24	5.05	± 0.30	
	HGB g/L	61	± 4	132	± 6	170	± 8	
	HCT %	18.3	± 1.5	39.7	± 2.0	52.6	± 2.4	
	MCV fL	84.2	± 5.0	94.7	± 5.0	104.1	± 5.0	
	MCH pg	28.1	± 2.5	31.5	± 2.5	33.7	± 2.5	
	MCHC g/L	334	± 30	333	± 30	323	± 30	
	RDW-CV %	15.5	± 3.0	14.1	± 3.0	13.8	± 3.0	
	RDW-SD fL	47.1	± 10.0	48.9	± 10.0	54.2	± 10.0	
	PLT ×10 ⁹ /L	53	± 20	256	± 40	512	± 60	
	MPV fL	7.9	± 3.0	9.6	± 3.0	9.6	± 3.0	
	PCT %*	0.042	± 0.042	0.246	± 0.100	0.492	± 0.200	
	PDW*	16.2	± 3.0	16.8	± 3.0	16.3	± 3.0	
	P-LCC ×10 ⁹ /L	12	± 12	86	± 25	174	± 35	
	P-LCR %	22.4	± 10.0	33.4	± 10.0	34.0	± 10.0	
BC-5390	WBC ×10 ⁹ /L	3.15	± 0.50	7.70	± 1.00	17.25	± 2.50	
QC Mode	Neu# ×10 ⁹ /L	1.58	± 0.29	4.35	± 0.70	11.13	± 1.56	
	Lym# ×10 ⁹ /L	1.13	± 0.29	2.12	± 0.70	3.28	± 1.21	
	Mon# ×10 ⁹ /L	0.25	± 0.22	0.58	± 0.47	0.95	± 0.70	
	Eos# ×10 ⁹ /L	0.19	± 0.16	0.65	± 0.54	1.90	± 1.56	
	Bas# ×10 ⁹ /L	0.75	± 0.32	2.16	± 0.78	5.28	± 1.73	
	Neu%	50.0	± 9.0	56.5	± 9.0	64.5	± 9.0	
	Lym%	36.0	± 9.0	27.5	± 9.0	19.0	± 7.0	
	Mon%	8.0	± 7.0	7.5	± 6.0	5.5	± 4.0	
	Eos%	6.0	± 5.0	8.5	± 7.0	11.0	± 9.0	
	Bas%	23.7	± 10.0	28.0	± 10.0	30.6	± 10.0	
	RBC ×10 ¹² /L	2.07	± 0.18	4.10	± 0.24	5.02	± 0.30	
	HGB g/L	54	± 4	121	± 6	158	± 8	
	HCT %	17.3	± 1.5	38.1	± 2.0	50.7	± 2.4	
	MCV fL	83.5	± 5.0	93.0	± 5.0	101.0	± 5.0	
	MCH pg	26.1	± 2.5	29.5	± 2.5	31.5	± 2.5	
	MCHC g/L	312	± 30	317	± 30	312	± 30	
	RDW-CV %	15.0	± 3.0	13.5	± 3.0	14.0	± 3.0	
	RDW-SD fL	47.5	± 8.0	47.5	± 8.0	52.0	± 8.0	
	PLT ×10 ⁹ /L	51	± 20	249	± 40	504	± 60	
	MPV fL	11.0	± 3.0	12.5	± 3.0	12.3	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2111BL	LOT	BC2111BN	LOT	BC2111BH	
BC-5390 CRP	WBC ×10 ⁹ /L		3.13 ± 0.50		7.72 ± 1.00		17.39 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.57 ± 0.29		4.40 ± 0.70		11.20 ± 1.57	
	Lym# ×10 ⁹ /L		1.16 ± 0.29		2.17 ± 0.62		3.29 ± 1.40	
	Mon# ×10 ⁹ /L		0.21 ± 0.19		0.52 ± 0.47		0.99 ± 0.87	
	Eos# ×10 ⁹ /L		0.19 ± 0.16		0.63 ± 0.54		1.91 ± 1.57	
	Bas# ×10 ⁹ /L		0.75 ± 0.32		2.24 ± 0.78		5.34 ± 1.74	
	Neu%		50.0 ± 9.0		57.0 ± 9.0		64.4 ± 9.0	
	Lym%		37.0 ± 9.0		28.1 ± 8.0		18.9 ± 8.0	
	Mon%		6.8 ± 6.0		6.7 ± 6.0		5.7 ± 5.0	
	Eos%		6.2 ± 5.0		8.2 ± 7.0		11.0 ± 9.0	
	Bas%		24.1 ± 10.0		29.0 ± 10.0		30.7 ± 10.0	
	RBC ×10 ¹² /L		2.10 ± 0.18		4.13 ± 0.24		5.03 ± 0.30	
	HGB g/L		56 ± 4		122 ± 6		159 ± 8	
	HCT %		17.3 ± 1.5		38.5 ± 2.0		51.5 ± 2.4	
	MCV fL		82.5 ± 5.0		93.2 ± 5.0		102.4 ± 5.0	
	MCH pg		26.7 ± 2.5		29.5 ± 2.5		31.6 ± 2.5	
	MCHC g/L		323 ± 30		317 ± 30		309 ± 30	
	RDW-CV %		15.7 ± 3.0		14.3 ± 3.0		14.3 ± 3.0	
	RDW-SD fL		45.4 ± 8.0		47.0 ± 8.0		51.9 ± 8.0	
	PLT ×10 ⁹ /L		48 ± 20		248 ± 40		508 ± 60	
	MPV fL		8.6 ± 3.0		10.2 ± 3.0		10.0 ± 3.0	
	PCT %*		0.041 ± 0.041		0.253 ± 0.100		0.508 ± 0.200	
	PDW*		16.0 ± 3.0		16.8 ± 3.0		16.5 ± 3.0	
	P-LCC ×10 ⁹ /L		10 ± 10		74 ± 25		147 ± 35	
	P-LCR %		20.7 ± 10.0		29.9 ± 10.0		28.9 ± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.13 ± 0.50		7.50 ± 1.00		17.10 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.56 ± 0.29		4.39 ± 0.68		11.29 ± 1.54	
QC Mode	Lym# ×10 ⁹ /L		1.24 ± 0.29		2.15 ± 0.60		3.25 ± 1.37	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.12 ± 0.12		0.38 ± 0.31		0.68 ± 0.68	
	Eos# ×10 ⁹ /L		0.22 ± 0.19		0.59 ± 0.46		1.88 ± 1.54	
	Bas# ×10 ⁹ /L		1.64 ± 0.32		5.12 ± 0.75		13.17 ± 1.71	
	Neu%		49.7 ± 9.0		58.5 ± 9.0		66.0 ± 9.0	
	Lym%		39.5 ± 9.0		28.7 ± 8.0		19.0 ± 8.0	
	Mon%		3.8 ± 3.8		5.0 ± 4.0		4.0 ± 4.0	
	Eos%		7.0 ± 6.0		7.8 ± 6.0		11.0 ± 9.0	
	Bas%		52.5 ± 10.0		68.3 ± 10.0		77.0 ± 10.0	
	RBC ×10 ¹² /L		2.10 ± 0.18		4.11 ± 0.24		4.98 ± 0.30	
	HGB g/L		56 ± 4		121 ± 6		159 ± 8	
	HCT %		18.4 ± 1.5		39.9 ± 2.0		52.9 ± 2.4	
	MCV fL		87.5 ± 5.0		97.0 ± 5.0		106.3 ± 5.0	
	MCH pg		26.7 ± 2.5		29.4 ± 2.5		31.9 ± 2.5	
	MCHC g/L		305 ± 30		304 ± 30		300 ± 30	
	RDW-CV %		15.2 ± 3.0		13.7 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		59.2 ± 8.0		59.5 ± 8.0		64.5 ± 8.0	
	PLT ×10 ⁹ /L		49 ± 20		234 ± 40		480 ± 60	
	MPV fL		8.6 ± 3.0		9.8 ± 3.0		9.7 ± 3.0	
	PCT %*		0.042 ± 0.042		0.231 ± 0.100		0.465 ± 0.200	
	PDW*		16.0 ± 3.0		16.8 ± 3.0		16.4 ± 3.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2111BL	LOT	BC2111BN	LOT	BC2111BH	
BC-5300,BC-5100	WBC $\times 10^9/L$	3.14	± 0.50	7.66	± 1.00	17.17	± 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$	1.59	± 0.29	4.49	± 0.69	11.23	± 1.55	
QC Mode	Lym# $\times 10^9/L$	1.21	± 0.29	2.15	± 0.62	3.25	± 1.38	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$	0.12	± 0.12	0.38	± 0.31	0.70	± 0.70	
	Eos# $\times 10^9/L$	0.22	± 0.19	0.64	± 0.54	1.99	± 1.55	
	Bas# $\times 10^9/L$	1.67	± 0.32	4.53	± 0.77	13.32	± 1.72	
	Neu%	50.7	± 9.0	58.6	± 9.0	65.4	± 9.0	
	Lym%	38.4	± 9.0	28.1	± 8.0	18.9	± 8.0	
	Mon%	3.8	± 3.8	4.9	± 4.0	4.1	± 4.1	
	Eos%	7.1	± 6.0	8.4	± 7.0	11.6	± 9.0	
	Bas%	53.3	± 10.0	59.2	± 10.0	77.6	± 10.0	
	RBC $\times 10^{12}/L$	2.11	± 0.18	4.13	± 0.24	5.02	± 0.30	
	HGB g/L	56	± 4	122	± 6	159	± 8	
	HCT %	17.7	± 1.5	39.2	± 2.0	52.4	± 2.4	
	MCV fL	84.0	± 5.0	94.9	± 5.0	104.3	± 5.0	
	MCH pg	26.5	± 2.5	29.5	± 2.5	31.7	± 2.5	
	MCHC g/L	316	± 30	311	± 30	304	± 30	
	RDW-CV %	15.4	± 3.0	14.1	± 3.0	14.1	± 3.0	
	RDW-SD fL	53.4	± 8.0	55.7	± 8.0	61.3	± 8.0	
	PLT $\times 10^9/L$	48	± 20	242	± 40	490	± 60	
	MPV fL	8.3	± 3.0	9.8	± 3.0	9.6	± 3.0	
	PCT %*	0.040	± 0.040	0.237	± 0.100	0.470	± 0.200	
	PDW*	16.0	± 3.0	16.9	± 3.0	16.5	± 3.0	
BC-5000,BC-5150,BC-5120	WBC $\times 10^9/L$	3.25	± 0.50	7.59	± 1.00	17.09	± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# $\times 10^9/L$	1.56	± 0.39	4.17	± 0.91	10.70	± 2.06	
QC Mode	Lym# $\times 10^9/L$	1.26	± 0.30	2.10	± 0.61	3.11	± 1.20	
	Mon# $\times 10^9/L$	0.27	± 0.27	0.66	± 0.66	1.32	± 1.32	
	Eos# $\times 10^9/L$	0.13	± 0.13	0.55	± 0.55	1.67	± 1.67	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.10	± 0.10	0.29	± 0.29	
	Neu%	48.0	± 12.0	55.0	± 12.0	62.6	± 12.0	
	Lym%	38.8	± 9.0	27.7	± 8.0	18.2	± 7.0	
	Mon%	8.4	± 8.4	8.7	± 8.7	7.7	± 7.7	
	Eos%	3.9	± 3.9	7.3	± 7.3	9.8	± 9.8	
	Bas%	0.9	± 0.9	1.3	± 1.3	1.7	± 1.7	
	RBC $\times 10^{12}/L$	2.13	± 0.18	4.18	± 0.24	5.09	± 0.30	
	HGB g/L	57	± 4	124	± 6	162	± 8	
	HCT %	17.8	± 1.5	38.7	± 2.0	51.1	± 2.4	
	MCV fL	83.7	± 5.0	92.6	± 5.0	100.4	± 5.0	
	MCH pg	26.8	± 2.5	29.7	± 2.5	31.8	± 2.5	
	MCHC g/L	320	± 30	320	± 30	317	± 30	
	RDW-CV %	18.4	± 3.0	16.4	± 3.0	16.3	± 3.0	
	RDW-SD fL	56.7	± 8.0	55.9	± 8.0	60.4	± 8.0	
	PLT $\times 10^9/L$	51	± 20	250	± 40	515	± 60	
	MPV fL	10.1	± 3.0	11.6	± 3.0	11.5	± 3.0	
	PCT %*	0.052	± 0.050	0.290	± 0.100	0.592	± 0.200	
	PDW*	15.7	± 3.0	16.8	± 3.0	16.6	± 3.0	
	P-LCC $\times 10^9/L$ **	14	± 14	92	± 25	186	± 35	
	P-LCR %**	28.3	± 10.0	36.6	± 10.0	36.2	± 10.0	

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

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BC2111B
2022-01-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2111BL	LOT	BC2111BN	LOT	BC2111BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC $\times 10^9/L$	3.15	± 0.50	7.50	± 1.00	17.25	± 2.50	
	Neu# $\times 10^9/L$	1.58	± 0.29	4.43	± 0.68	11.39	± 1.56	
	Lym# $\times 10^9/L$	1.24	± 0.29	2.14	± 0.61	3.28	± 1.39	
	Mon# $\times 10^9/L$	0.11	± 0.11	0.38	± 0.31	0.69	± 0.69	
	Eos# $\times 10^9/L$	0.22	± 0.19	0.56	± 0.45	1.90	± 1.56	
	Neu%	50.0	± 9.0	59.0	± 9.0	66.0	± 9.0	
	Lym%	39.5	± 9.0	28.5	± 8.0	19.0	± 8.0	
	Mon%	3.5	± 3.5	5.0	± 4.0	4.0	± 4.0	
	Eos%	7.0	± 6.0	7.5	± 6.0	11.0	± 9.0	
	RBC $\times 10^{12}/L$	2.09	± 0.18	4.11	± 0.24	4.98	± 0.30	
	HGB g/L	56	± 4	121	± 6	158	± 8	
	HCT %	18.4	± 1.5	39.9	± 2.0	52.8	± 2.4	
	MCV fL	88.0	± 5.0	97.0	± 5.0	106.0	± 5.0	
	MCH pg	26.8	± 2.5	29.4	± 2.5	31.7	± 2.5	
	MCHC g/L	304	± 30	304	± 30	299	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	14.0	± 3.0	
	RDW-SD fL	60.0	± 8.0	60.0	± 8.0	65.0	± 8.0	
	PLT $\times 10^9/L$	48	± 20	232	± 40	480	± 60	
	MPV fL	9.2	± 3.0	10.5	± 3.0	10.3	± 3.0	
	PCT %*	0.044	± 0.044	0.244	± 0.100	0.492	± 0.200	
	PDW*	16.0	± 3.0	16.7	± 3.0	16.3	± 3.0	

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