

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2103B**2021-05-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2103BL	LOT	BC2103BN	LOT	BC2103BH	
BC-5800,BC-5600	WBC $\times 10^9/L$	3.51	± 0.50	8.12	± 1.00	18.07	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.75	± 0.32	4.38	± 0.73	11.31	± 1.63	
	Lym# $\times 10^9/L$	1.31	± 0.32	2.45	± 0.65	3.60	± 1.45	
	Mon# $\times 10^9/L$	0.25	± 0.22	0.62	± 0.49	1.36	± 1.09	
	Eos# $\times 10^9/L$	0.17	± 0.15	0.58	± 0.49	1.63	± 1.27	
	Bas# $\times 10^9/L$	0.04	± 0.04	0.08	± 0.08	0.18	± 0.18	
	Neu%	49.8	± 9.0	54.0	± 9.0	62.6	± 9.0	
	Lym%	37.4	± 9.0	30.2	± 8.0	19.9	± 8.0	
	Mon%	7.0	± 6.0	7.6	± 6.0	7.5	± 6.0	
	Eos%	4.8	± 4.0	7.2	± 6.0	9.0	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.36	± 0.18	4.21	± 0.24	5.02	± 0.30	
	HGB g/L	62	± 4	134	± 6	173	± 8	
	HCT %	18.6	± 1.5	40.2	± 2.0	52.7	± 2.4	
	MCV fL	78.7	± 5.0	95.5	± 5.0	104.9	± 5.0	
	MCH pg	26.3	± 2.5	31.8	± 2.5	34.5	± 2.5	
	MCHC g/L	334	± 30	333	± 30	329	± 30	
	RDW-CV %	16.9	± 3.0	13.9	± 3.0	13.3	± 3.0	
	RDW-SD fL	47.0	± 10.0	48.3	± 10.0	51.9	± 10.0	
	PLT $\times 10^9/L$	48	± 20	255	± 40	502	± 60	
	MPV fL	9.0	± 3.0	9.3	± 3.0	9.4	± 3.0	
	PCT %*	0.043	± 0.043	0.237	± 0.100	0.472	± 0.200	
	PDW*	16.5	± 3.0	16.0	± 3.0	16.1	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	73	± 25	158	± 35	
	P-LCR %	30.3	± 10.0	28.8	± 10.0	31.5	± 10.0	
BC-5390	WBC $\times 10^9/L$	3.20	± 0.50	8.00	± 1.00	17.40	± 2.50	
QC Mode	Neu# $\times 10^9/L$	1.71	± 0.29	4.48	± 0.72	11.14	± 1.57	
	Lym# $\times 10^9/L$	1.12	± 0.29	2.28	± 0.64	3.13	± 1.22	
	Mon# $\times 10^9/L$	0.19	± 0.16	0.56	± 0.48	1.31	± 1.05	
	Eos# $\times 10^9/L$	0.18	± 0.17	0.68	± 0.48	1.83	± 1.40	
	Bas# $\times 10^9/L$	0.80	± 0.33	2.22	± 0.80	5.31	± 1.75	
	Neu%	53.5	± 9.0	56.0	± 9.0	64.0	± 9.0	
	Lym%	35.0	± 9.0	28.5	± 8.0	18.0	± 7.0	
	Mon%	6.0	± 5.0	7.0	± 6.0	7.5	± 6.0	
	Eos%	5.5	± 5.0	8.5	± 6.0	10.5	± 8.0	
	Bas%	24.9	± 10.0	27.8	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.26	± 0.18	4.15	± 0.24	4.96	± 0.30	
	HGB g/L	55	± 4	123	± 6	159	± 8	
	HCT %	17.6	± 1.5	38.8	± 2.0	50.6	± 2.4	
	MCV fL	78.0	± 5.0	93.5	± 5.0	102.0	± 5.0	
	MCH pg	24.3	± 2.5	29.6	± 2.5	32.1	± 2.5	
	MCHC g/L	312	± 30	317	± 30	314	± 30	
	RDW-CV %	16.0	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	47.5	± 8.0	47.5	± 8.0	50.0	± 8.0	
	PLT $\times 10^9/L$	46	± 20	249	± 40	494	± 60	
	MPV fL	12.0	± 3.0	12.0	± 3.0	12.0	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2103BL	LOT	BC2103BN	LOT	BC2103BH	
BC-5390 CRP	WBC ×10 ⁹ /L		3.23 ± 0.50		7.91 ± 1.00		17.46 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.72 ± 0.30		4.34 ± 0.72		11.19 ± 1.58	
	Lym# ×10 ⁹ /L		1.15 ± 0.30		2.33 ± 0.64		3.30 ± 1.40	
	Mon# ×10 ⁹ /L		0.19 ± 0.17		0.52 ± 0.40		1.19 ± 0.88	
	Eos# ×10 ⁹ /L		0.18 ± 0.17		0.71 ± 0.48		1.78 ± 1.40	
	Bas# ×10 ⁹ /L		0.82 ± 0.33		2.24 ± 0.80		5.34 ± 1.75	
	Neu%		53.1 ± 9.0		54.9 ± 9.0		64.1 ± 9.0	
	Lym%		35.5 ± 9.0		29.5 ± 8.0		18.9 ± 8.0	
	Mon%		5.9 ± 5.0		6.6 ± 5.0		6.8 ± 5.0	
	Eos%		5.5 ± 5.0		9.0 ± 6.0		10.2 ± 8.0	
	Bas%		25.5 ± 10.0		28.3 ± 10.0		30.6 ± 10.0	
	RBC ×10 ¹² /L		2.26 ± 0.18		4.13 ± 0.24		4.95 ± 0.30	
	HGB g/L		57 ± 4		123 ± 6		160 ± 8	
	HCT %		17.4 ± 1.5		38.6 ± 2.0		50.5 ± 2.4	
	MCV fL		77.2 ± 5.0		93.5 ± 5.0		102.0 ± 5.0	
	MCH pg		25.2 ± 2.5		29.8 ± 2.5		32.3 ± 2.5	
	MCHC g/L		327 ± 30		319 ± 30		317 ± 30	
	RDW-CV %		16.9 ± 3.0		14.2 ± 3.0		14.1 ± 3.0	
	RDW-SD fL		45.2 ± 8.0		46.6 ± 8.0		50.3 ± 8.0	
	PLT ×10 ⁹ /L		43 ± 20		250 ± 40		497 ± 60	
	MPV fL		10.1 ± 3.0		10.0 ± 3.0		10.0 ± 3.0	
	PCT %*		0.043 ± 0.043		0.250 ± 0.100		0.497 ± 0.200	
	PDW*		15.7 ± 3.0		16.0 ± 3.0		16.2 ± 3.0	
	P-LCC ×10 ⁹ /L		12 ± 12		60 ± 25		131 ± 35	
	P-LCR %		28.5 ± 10.0		23.9 ± 10.0		26.4 ± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.20 ± 0.50		7.80 ± 1.00		17.50 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.76 ± 0.29		4.45 ± 0.71		11.38 ± 1.58	
QC Mode	Lym# ×10 ⁹ /L		1.12 ± 0.29		2.28 ± 0.63		3.24 ± 1.41	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.11 ± 0.11		0.35 ± 0.35		1.02 ± 0.88	
	Eos# ×10 ⁹ /L		0.21 ± 0.17		0.73 ± 0.55		1.87 ± 1.40	
	Bas# ×10 ⁹ /L		1.82 ± 0.32		5.37 ± 0.78		13.62 ± 1.76	
	Neu%		55.0 ± 9.0		57.0 ± 9.0		65.0 ± 9.0	
	Lym%		35.0 ± 9.0		29.2 ± 8.0		18.5 ± 8.0	
	Mon%		3.5 ± 3.5		4.5 ± 4.5		5.8 ± 5.0	
	Eos%		6.5 ± 5.0		9.3 ± 7.0		10.7 ± 8.0	
	Bas%		56.9 ± 10.0		68.9 ± 10.0		77.8 ± 10.0	
	RBC ×10 ¹² /L		2.27 ± 0.18		4.15 ± 0.24		4.96 ± 0.30	
	HGB g/L		57 ± 4		125 ± 6		161 ± 8	
	HCT %		18.6 ± 1.5		41.1 ± 2.0		53.6 ± 2.4	
	MCV fL		81.8 ± 5.0		99.0 ± 5.0		108.0 ± 5.0	
	MCH pg		25.1 ± 2.5		30.1 ± 2.5		32.5 ± 2.5	
	MCHC g/L		307 ± 30		304 ± 30		301 ± 30	
	RDW-CV %		16.0 ± 3.0		13.5 ± 3.0		13.2 ± 3.0	
	RDW-SD fL		57.8 ± 8.0		59.5 ± 8.0		62.0 ± 8.0	
	PLT ×10 ⁹ /L		42 ± 20		234 ± 40		474 ± 60	
	MPV fL		9.7 ± 3.0		9.5 ± 3.0		9.5 ± 3.0	
	PCT %*		0.050 ± 0.050		0.223 ± 0.100		0.445 ± 0.200	
	PDW*		15.8 ± 3.0		16.0 ± 3.0		16.2 ± 3.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2103BL	LOT	BC2103BN	LOT	BC2103BH	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.19 ± 0.50		7.85 ± 1.00		17.37 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.75 ± 0.29		4.47 ± 0.71		11.24 ± 1.57	
QC Mode	Lym# ×10 ⁹ /L		1.10 ± 0.29		2.27 ± 0.63		3.23 ± 1.39	
(Software version 1.24.00.16860 or higher)	Mon# ×10 ⁹ /L		0.11 ± 0.11		0.37 ± 0.32		1.06 ± 0.87	
	Eos# ×10 ⁹ /L		0.22 ± 0.19		0.74 ± 0.63		1.84 ± 1.39	
	Bas# ×10 ⁹ /L		1.82 ± 0.32		5.45 ± 0.79		13.57 ± 1.74	
	Neu%		54.9 ± 9.0		57.0 ± 9.0		64.7 ± 9.0	
	Lym%		34.6 ± 9.0		28.9 ± 8.0		18.6 ± 8.0	
	Mon%		3.5 ± 3.5		4.7 ± 4.0		6.1 ± 5.0	
	Eos%		7.0 ± 6.0		9.4 ± 8.0		10.6 ± 8.0	
	Bas%		57.0 ± 10.0		69.4 ± 10.0		78.1 ± 10.0	
	RBC ×10 ¹² /L		2.26 ± 0.18		4.12 ± 0.24		4.93 ± 0.30	
	HGB g/L		56 ± 4		124 ± 6		161 ± 8	
	HCT %		17.7 ± 1.5		39.6 ± 2.0		51.7 ± 2.4	
	MCV fL		78.5 ± 5.0		96.0 ± 5.0		104.9 ± 5.0	
	MCH pg		24.8 ± 2.5		30.1 ± 2.5		32.7 ± 2.5	
	MCHC g/L		316 ± 30		314 ± 30		311 ± 30	
	RDW-CV %		16.4 ± 3.0		13.9 ± 3.0		13.6 ± 3.0	
	RDW-SD fL		53.5 ± 8.0		55.3 ± 8.0		59.1 ± 8.0	
	PLT ×10 ⁹ /L		41 ± 20		238 ± 40		479 ± 60	
	MPV fL		9.4 ± 3.0		9.4 ± 3.0		9.4 ± 3.0	
	PCT %*		0.039 ± 0.039		0.224 ± 0.100		0.450 ± 0.200	
	PDW*		15.9 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	
BC-5000,BC-5150,BC-5120	WBC ×10 ⁹ /L		3.31 ± 0.50		7.83 ± 1.00		17.25 ± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# ×10 ⁹ /L		1.72 ± 0.40		4.27 ± 0.94		10.63 ± 2.08	
QC Mode	Lym# ×10 ⁹ /L		1.12 ± 0.30		2.19 ± 0.63		3.09 ± 1.21	
	Mon# ×10 ⁹ /L		0.30 ± 0.30		0.69 ± 0.69		1.60 ± 1.60	
	Eos# ×10 ⁹ /L		0.14 ± 0.14		0.57 ± 0.57		1.64 ± 1.64	
	Bas# ×10 ⁹ /L		0.03 ± 0.03		0.11 ± 0.11		0.29 ± 0.29	
	Neu%		52.1 ± 12.0		54.5 ± 12.0		61.6 ± 12.0	
	Lym%		33.7 ± 9.0		28.0 ± 8.0		17.9 ± 7.0	
	Mon%		9.0 ± 9.0		8.8 ± 8.8		9.3 ± 9.3	
	Eos%		4.3 ± 4.3		7.3 ± 7.3		9.5 ± 9.5	
	Bas%		0.9 ± 0.9		1.4 ± 1.4		1.7 ± 1.7	
	RBC ×10 ¹² /L		2.25 ± 0.18		4.24 ± 0.24		5.01 ± 0.30	
	HGB g/L		57 ± 4		127 ± 6		165 ± 8	
	HCT %		17.9 ± 1.5		40.5 ± 2.0		51.9 ± 2.4	
	MCV fL		79.5 ± 5.0		95.5 ± 5.0		103.5 ± 5.0	
	MCH pg		25.3 ± 2.5		30.0 ± 2.5		32.9 ± 2.5	
	MCHC g/L		319 ± 30		314 ± 30		318 ± 30	
	RDW-CV %		19.6 ± 3.0		16.1 ± 3.0		15.7 ± 3.0	
	RDW-SD fL		57.2 ± 8.0		55.3 ± 8.0		58.6 ± 8.0	
	PLT ×10 ⁹ /L		44 ± 20		249 ± 40		510 ± 60	
	MPV fL		11.0 ± 3.0		11.4 ± 3.0		11.3 ± 3.0	
	PCT %*		0.048 ± 0.048		0.284 ± 0.100		0.576 ± 0.200	
	PDW*		15.3 ± 3.0		16.1 ± 3.0		16.3 ± 3.0	
	P-LCC ×10 ⁹ /L**		16 ± 15		85 ± 25		180 ± 35	
	P-LCR %**		35.7 ± 10.0		34.0 ± 10.0		35.2 ± 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



BC2103B
2021-05-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2103BL	LOT	BC2103BN	LOT	BC2103BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC ×10 ⁹ /L	3.20	± 0.50	7.80	± 1.00	17.50	± 2.50	
	Neu# ×10 ⁹ /L	1.76	± 0.29	4.45	± 0.71	11.38	± 1.58	
	Lym# ×10 ⁹ /L	1.12	± 0.29	2.28	± 0.63	3.24	± 1.41	
	Mon# ×10 ⁹ /L	0.11	± 0.11	0.35	± 0.35	1.02	± 0.88	
	Eos# ×10 ⁹ /L	0.21	± 0.17	0.73	± 0.55	1.87	± 1.40	
	Neu%	55.0	± 9.0	57.0	± 9.0	65.0	± 9.0	
	Lym%	35.0	± 9.0	29.2	± 8.0	18.5	± 8.0	
	Mon%	3.5	± 3.5	4.5	± 4.5	5.8	± 5.0	
	Eos%	6.5	± 5.0	9.3	± 7.0	10.7	± 8.0	
	RBC ×10 ¹² /L	2.27	± 0.18	4.15	± 0.24	4.96	± 0.30	
	HGB g/L	57	± 4	125	± 6	161	± 8	
	HCT %	18.6	± 1.5	41.1	± 2.0	53.6	± 2.4	
	MCV fL	81.8	± 5.0	99.0	± 5.0	108.0	± 5.0	
	MCH pg	25.1	± 2.5	30.1	± 2.5	32.5	± 2.5	
	MCHC g/L	307	± 30	304	± 30	301	± 30	
	RDW-CV %	16.0	± 3.0	13.5	± 3.0	13.2	± 3.0	
	RDW-SD fL	57.8	± 8.0	59.5	± 8.0	62.0	± 8.0	
	PLT ×10 ⁹ /L	42	± 20	234	± 40	474	± 60	
	MPV fL	9.7	± 3.0	9.5	± 3.0	9.5	± 3.0	
	PCT %*	0.050	± 0.050	0.223	± 0.100	0.445	± 0.200	
PDW*	15.8	± 3.0	16.0	± 3.0	16.2	± 3.0		

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