

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC1905B



2019-07-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC1905BL	LOT	BC1905BN	LOT	BC1905BH	
BC-5800,BC-5600 QC Mode	WBC $\times 10^9/L$	3.40	± 0.50	8.00	± 1.00	17.70	± 2.50	
	Neu# $\times 10^9/L$	1.67	± 0.31	4.48	± 0.64	11.42	± 1.42	
	Lym# $\times 10^9/L$	1.28	± 0.31	2.36	± 0.64	3.36	± 1.42	
	Mon# $\times 10^9/L$	0.27	± 0.21	0.56	± 0.48	1.24	± 1.07	
	Eos# $\times 10^9/L$	0.15	± 0.14	0.52	± 0.48	1.50	± 1.24	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	49.0	± 9.0	56.0	± 8.0	64.5	± 8.0	
	Lym%	37.5	± 9.0	29.5	± 8.0	19.0	± 8.0	
	Mon%	8.0	± 6.0	7.0	± 6.0	7.0	± 6.0	
	Eos%	4.5	± 4.0	6.5	± 6.0	8.5	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.06	± 0.18	4.14	± 0.24	4.89	± 0.30	
	HGB g/L	60	± 4	133	± 6	168	± 8	
	HCT %	18.2	± 1.5	40.4	± 2.0	52.1	± 2.4	
	MCV fL	88.5	± 5.0	97.5	± 5.0	106.5	± 5.0	
	MCH pg	29.1	± 2.5	32.1	± 2.5	34.4	± 2.5	
	MCHC g/L	329	± 30	329	± 30	323	± 30	
	RDW-CV %	14.5	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	47.0	± 10.0	48.5	± 10.0	52.0	± 10.0	
	PLT $\times 10^9/L$	50	± 20	255	± 40	525	± 60	
	MPV fL	8.2	± 3.0	8.6	± 3.0	8.8	± 3.0	
	PCT %*	0.050	± 0.050	0.215	± 0.100	0.450	± 0.200	
	PDW*	16.1	± 3.0	15.7	± 3.0	15.4	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	60	± 25	130	± 35	
	P-LCR %	24.5	± 10.0	24.0	± 10.0	25.0	± 10.0	
BC-5500,BC-5200 QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.65	± 1.00	17.00	± 2.50	
	Neu# $\times 10^9/L$	1.58	± 0.30	4.32	± 0.62	10.97	± 1.37	
	Lym# $\times 10^9/L$	1.19	± 0.30	2.18	± 0.62	3.32	± 1.37	
	Mon# $\times 10^9/L$	0.29	± 0.23	0.54	± 0.47	1.11	± 1.03	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.54	± 0.47	1.45	± 1.20	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.17	± 0.17	
	Neu%	48.5	± 9.0	56.5	± 8.0	64.5	± 8.0	
	Lym%	36.5	± 9.0	28.5	± 8.0	19.5	± 8.0	
	Mon%	9.0	± 7.0	7.0	± 6.0	6.5	± 6.0	
	Eos%	5.0	± 4.0	7.0	± 6.0	8.5	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.10	± 0.18	4.18	± 0.24	4.87	± 0.30	
	HGB g/L	64	± 4	142	± 6	179	± 8	
	HCT %	17.6	± 1.5	38.9	± 2.0	49.2	± 2.4	
	MCV fL	84.0	± 5.0	93.0	± 5.0	101.0	± 5.0	
	MCH pg	30.5	± 2.5	34.0	± 2.5	36.8	± 2.5	
	MCHC g/L	363	± 30	365	± 30	364	± 30	
	RDW-CV %	12.0	± 3.0	11.0	± 3.0	11.0	± 3.0	
	RDW-SD fL	31.5	± 8.0	34.0	± 8.0	36.5	± 8.0	
	PLT $\times 10^9/L$	52	± 20	248	± 40	511	± 60	
	MPV fL	8.6	± 3.0	9.2	± 3.0	9.5	± 3.0	
	PCT %*	0.050	± 0.050	0.230	± 0.100	0.480	± 0.200	
	PDW*	16.3	± 3.0	16.0	± 3.0	15.8	± 3.0	

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BC1905B
2019-07-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC1905BL	LOT	BC1905BN	LOT	BC1905BH	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.30	± 0.50	7.90	± 1.00	17.30	± 2.50	
	Neu# $\times 10^9/L$	1.70	± 0.30	4.58	± 0.64	11.50	± 1.56	
	Lym# $\times 10^9/L$	1.19	± 0.30	2.33	± 0.64	3.29	± 1.22	
	Mon# $\times 10^9/L$	0.25	± 0.20	0.43	± 0.40	0.95	± 0.87	
	Eos# $\times 10^9/L$	0.17	± 0.14	0.55	± 0.48	1.56	± 1.22	
	Bas# $\times 10^9/L$	0.85	± 0.33	2.16	± 0.79	5.33	± 1.74	
	Neu%	51.5	± 9.0	58.0	± 8.0	66.5	± 9.0	
	Lym%	36.0	± 9.0	29.5	± 8.0	19.0	± 7.0	
	Mon%	7.5	± 6.0	5.5	± 5.0	5.5	± 5.0	
	Eos%	5.0	± 4.0	7.0	± 6.0	9.0	± 7.0	
	Bas%	25.9	± 10.0	27.4	± 10.0	30.8	± 10.0	
	RBC $\times 10^{12}/L$	2.02	± 0.18	4.10	± 0.24	4.83	± 0.30	
	HGB g/L	55	± 4	124	± 6	156	± 8	
	HCT %	17.5	± 1.5	38.7	± 2.0	49.5	± 2.4	
	MCV fL	86.5	± 5.0	94.5	± 5.0	102.5	± 5.0	
	MCH pg	27.2	± 2.5	30.2	± 2.5	32.3	± 2.5	
	MCHC g/L	315	± 30	320	± 30	315	± 30	
	RDW-CV %	14.0	± 3.0	13.0	± 3.0	13.0	± 3.0	
	RDW-SD fL	46.5	± 8.0	48.0	± 8.0	51.0	± 8.0	
	PLT $\times 10^9/L$	50	± 20	249	± 40	515	± 60	
BC-5390 CRP QC Mode	MPV fL	11.1	± 3.0	11.2	± 3.0	11.3	± 3.0	
	WBC $\times 10^9/L$	3.30	± 0.50	7.90	± 1.00	17.55	± 2.50	
	Neu# $\times 10^9/L$	1.68	± 0.30	4.54	± 0.64	11.67	± 1.58	
	Lym# $\times 10^9/L$	1.19	± 0.30	2.25	± 0.64	3.25	± 1.23	
	Mon# $\times 10^9/L$	0.25	± 0.20	0.51	± 0.48	1.05	± 0.88	
	Eos# $\times 10^9/L$	0.18	± 0.17	0.59	± 0.48	1.58	± 1.23	
	Bas# $\times 10^9/L$	0.86	± 0.34	2.17	± 0.79	5.42	± 1.76	
	Neu%	51.0	± 9.0	57.5	± 8.0	66.5	± 9.0	
	Lym%	36.0	± 9.0	28.5	± 8.0	18.5	± 7.0	
	Mon%	7.5	± 6.0	6.5	± 6.0	6.0	± 5.0	
	Eos%	5.5	± 5.0	7.5	± 6.0	9.0	± 7.0	
	Bas%	26.0	± 10.0	27.5	± 10.0	30.9	± 10.0	
	RBC $\times 10^{12}/L$	2.00	± 0.18	4.06	± 0.24	4.83	± 0.30	
	HGB g/L	56	± 4	123	± 6	156	± 8	
	HCT %	16.9	± 1.5	38.6	± 2.0	50.0	± 2.4	
	MCV fL	84.5	± 5.0	95.0	± 5.0	103.5	± 5.0	
	MCH pg	28.0	± 2.5	30.3	± 2.5	32.3	± 2.5	
	MCHC g/L	331	± 30	319	± 30	312	± 30	
	RDW-CV %	15.0	± 3.0	13.5	± 3.0	13.5	± 3.0	
	RDW-SD fL	45.0	± 8.0	47.0	± 8.0	50.0	± 8.0	
	PLT $\times 10^9/L$	46	± 20	242	± 40	512	± 60	
	MPV fL	8.6	± 3.0	8.6	± 3.0	8.7	± 3.0	
	PCT %*	0.050	± 0.050	0.205	± 0.100	0.440	± 0.200	
	PDW*	15.8	± 3.0	15.7	± 3.0	15.7	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	45	± 25	97	± 35	
	P-LCR %	19.0	± 10.0	18.6	± 10.0	19.0	± 10.0	

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2019-07-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC1905BL	LOT	BC1905BN	LOT	BC1905BH	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.25 \pm 0.50		7.80 \pm 1.00		17.30 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.69 \pm 0.30		4.63 \pm 0.63		11.68 \pm 1.39	
QC Mode	Lym# $\times 10^9/L$		1.15 \pm 0.30		2.16 \pm 0.63		3.11 \pm 1.39	
(Software version lower than 1.24.00.16860)	Mon# $\times 10^9/L$		0.23 \pm 0.20		0.43 \pm 0.40		0.87 \pm 0.70	
	Eos# $\times 10^9/L$		0.18 \pm 0.17		0.59 \pm 0.48		1.64 \pm 1.21	
	Bas# $\times 10^9/L$		1.89 \pm 0.33		5.23 \pm 0.79		13.41 \pm 1.74	
	Neu%		52.0 \pm 9.0		59.3 \pm 8.0		67.5 \pm 8.0	
	Lym%		35.5 \pm 9.0		27.7 \pm 8.0		18.0 \pm 8.0	
	Mon%		7.0 \pm 6.0		5.5 \pm 5.0		5.0 \pm 4.0	
	Eos%		5.5 \pm 5.0		7.5 \pm 6.0		9.5 \pm 7.0	
	Bas%		58.0 \pm 10.0		67.0 \pm 10.0		77.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.03 \pm 0.18		4.09 \pm 0.24		4.88 \pm 0.30	
	HGB g/L		56 \pm 4		125 \pm 6		157 \pm 8	
	HCT %		18.4 \pm 1.5		41.1 \pm 2.0		52.7 \pm 2.4	
	MCV fL		90.5 \pm 5.0		100.5 \pm 5.0		108.0 \pm 5.0	
	MCH pg		27.6 \pm 2.5		30.6 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		305 \pm 30		304 \pm 30		298 \pm 30	
	RDW-CV %		14.5 \pm 3.0		13.5 \pm 3.0		13.3 \pm 3.0	
	RDW-SD fL		58.2 \pm 8.0		60.2 \pm 8.0		63.2 \pm 8.0	
	PLT $\times 10^9/L$		47 \pm 20		245 \pm 40		510 \pm 60	
	MPV fL		8.7 \pm 3.0		8.8 \pm 3.0		9.0 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.215 \pm 0.100		0.455 \pm 0.200	
	PDW*		16.0 \pm 3.0		15.9 \pm 3.0		15.7 \pm 3.0	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.30 \pm 0.50		7.90 \pm 1.00		17.50 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.72 \pm 0.30		4.66 \pm 0.64		11.90 \pm 1.40	
QC Mode	Lym# $\times 10^9/L$		1.17 \pm 0.30		2.21 \pm 0.64		3.24 \pm 1.41	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.25 \pm 0.24		0.43 \pm 0.40		0.79 \pm 0.71	
	Eos# $\times 10^9/L$		0.17 \pm 0.14		0.59 \pm 0.48		1.58 \pm 1.23	
	Bas# $\times 10^9/L$		1.99 \pm 0.34		5.36 \pm 0.79		13.77 \pm 1.75	
	Neu%		52.0 \pm 9.0		59.0 \pm 8.0		68.0 \pm 8.0	
	Lym%		35.5 \pm 9.0		28.0 \pm 8.0		18.5 \pm 8.0	
	Mon%		7.5 \pm 7.0		5.5 \pm 5.0		4.5 \pm 4.0	
	Eos%		5.0 \pm 4.0		7.5 \pm 6.0		9.0 \pm 7.0	
	Bas%		60.2 \pm 10.0		67.9 \pm 10.0		78.7 \pm 10.0	
	RBC $\times 10^{12}/L$		2.02 \pm 0.18		4.07 \pm 0.24		4.85 \pm 0.30	
	HGB g/L		57 \pm 4		125 \pm 6		157 \pm 8	
	HCT %		17.9 \pm 1.5		40.3 \pm 2.0		51.9 \pm 2.4	
	MCV fL		88.5 \pm 5.0		99.0 \pm 5.0		107.0 \pm 5.0	
	MCH pg		28.2 \pm 2.5		30.7 \pm 2.5		32.4 \pm 2.5	
	MCHC g/L		319 \pm 30		310 \pm 30		303 \pm 30	
	RDW-CV %		14.5 \pm 3.0		13.5 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		54.0 \pm 8.0		57.0 \pm 8.0		60.5 \pm 8.0	
	PLT $\times 10^9/L$		47 \pm 20		245 \pm 40		515 \pm 60	
	MPV fL		8.8 \pm 3.0		8.9 \pm 3.0		9.0 \pm 3.0	
	PCT %*		0.050 \pm 0.050		0.215 \pm 0.100		0.465 \pm 0.200	
	PDW*		15.8 \pm 3.0		15.7 \pm 3.0		15.6 \pm 3.0	

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Instrument	Parameter	Low		Normal		High		++++
		LOT	BC1905BL	LOT	BC1905BN	LOT	BC1905BH	
BC-5000,BC-5150,BC-5120 BC-5130,BC-5140,BC-5000VET QC Mode	WBC $\times 10^9/L$	3.20	± 0.50	7.75	± 1.00	17.00	± 2.50	
	Neu# $\times 10^9/L$	1.52	± 0.39	4.32	± 0.93	10.91	± 2.04	
	Lym# $\times 10^9/L$	1.15	± 0.29	2.15	± 0.63	3.01	± 1.20	
	Mon# $\times 10^9/L$	0.35	± 0.35	0.67	± 0.67	1.34	± 1.34	
	Eos# $\times 10^9/L$	0.15	± 0.15	0.51	± 0.51	1.48	± 1.48	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.09	± 0.09	0.26	± 0.26	
	Neu%	47.6	± 12.0	55.8	± 12.0	64.2	± 12.0	
	Lym%	36.0	± 9.0	27.7	± 8.0	17.7	± 7.0	
	Mon%	10.8	± 10.8	8.7	± 8.7	7.9	± 7.9	
	Eos%	4.8	± 4.8	6.6	± 6.6	8.7	± 8.7	
	Bas%	0.8	± 0.8	1.2	± 1.2	1.5	± 1.5	
	RBC $\times 10^{12}/L$	2.04	± 0.18	4.17	± 0.24	4.96	± 0.30	
	HGB g/L	56	± 4	127	± 6	161	± 8	
	HCT %	18.4	± 1.5	40.9	± 2.0	51.6	± 2.4	
	MCV fL	90.0	± 5.0	98.0	± 5.0	104.0	± 5.0	
	MCH pg	27.5	± 2.5	30.5	± 2.5	32.5	± 2.5	
	MCHC g/L	305	± 30	311	± 30	312	± 30	
	RDW-CV %	17.0	± 3.0	15.5	± 3.0	15.0	± 3.0	
	RDW-SD fL	55.5	± 8.0	55.5	± 8.0	57.5	± 8.0	
	PLT $\times 10^9/L$	49	± 20	253	± 40	535	± 60	
	MPV fL	10.5	± 3.0	10.6	± 3.0	10.5	± 3.0	
	PCT %*	0.050	± 0.050	0.270	± 0.100	0.570	± 0.200	
	PDW*	15.7	± 3.0	15.9	± 3.0	15.8	± 3.0	
	P-LCC $\times 10^9/L$ **	15	± 15	75	± 25	155	± 35	
	P-LCR %**	29.5	± 10.0	29.5	± 10.0	28.5	± 10.0	
BC-5300Vet,BC-5100Vet QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.80	± 1.00	17.30	± 2.50	
	Neu# $\times 10^9/L$	1.69	± 0.30	4.63	± 0.63	11.68	± 1.39	
	Lym# $\times 10^9/L$	1.15	± 0.30	2.16	± 0.63	3.11	± 1.39	
	Mon# $\times 10^9/L$	0.23	± 0.20	0.43	± 0.40	0.87	± 0.70	
	Eos# $\times 10^9/L$	0.18	± 0.17	0.59	± 0.48	1.64	± 1.21	
	Neu%	52.0	± 9.0	59.3	± 8.0	67.5	± 8.0	
	Lym%	35.5	± 9.0	27.7	± 8.0	18.0	± 8.0	
	Mon%	7.0	± 6.0	5.5	± 5.0	5.0	± 4.0	
	Eos%	5.5	± 5.0	7.5	± 6.0	9.5	± 7.0	
	RBC $\times 10^{12}/L$	2.03	± 0.18	4.09	± 0.24	4.88	± 0.30	
	HGB g/L	56	± 4	125	± 6	157	± 8	
	HCT %	18.4	± 1.5	41.1	± 2.0	52.7	± 2.4	
	MCV fL	90.5	± 5.0	100.5	± 5.0	108.0	± 5.0	
	MCH pg	27.6	± 2.5	30.6	± 2.5	32.2	± 2.5	
	MCHC g/L	305	± 30	304	± 30	298	± 30	
	RDW-CV %	14.5	± 3.0	13.5	± 3.0	13.3	± 3.0	
	RDW-SD fL	58.2	± 8.0	60.2	± 8.0	63.2	± 8.0	
	PLT $\times 10^9/L$	47	± 20	245	± 40	510	± 60	
	MPV fL	8.7	± 3.0	8.8	± 3.0	9.0	± 3.0	
	PCT %*	0.050	± 0.050	0.215	± 0.100	0.455	± 0.200	
	PDW*	16.0	± 3.0	15.9	± 3.0	15.7	± 3.0	

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

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