

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2405B



2024-07-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.41	± 0.50	7.95	± 1.00	17.96	± 2.50	
	Neu# $\times 10^9/L$	1.65	± 0.31	4.40	± 0.72	11.40	± 1.62	
	Lym# $\times 10^9/L$	1.34	± 0.31	2.39	± 0.64	3.74	± 1.44	
	Mon# $\times 10^9/L$	0.24	± 0.18	0.56	± 0.40	1.15	± 0.90	
	Eos# $\times 10^9/L$	0.15	± 0.11	0.52	± 0.40	1.49	± 1.08	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.5	± 9.0	55.4	± 9.0	63.5	± 9.0	
	Lym%	39.2	± 9.0	30.0	± 8.0	20.8	± 8.0	
	Mon%	6.9	± 5.0	7.1	± 5.0	6.4	± 5.0	
	Eos%	4.4	± 3.0	6.5	± 5.0	8.3	± 6.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.17	± 0.18	4.05	± 0.24	4.96	± 0.30	
	HGB g/L	59	± 4	129	± 6	167	± 8	
	HCT %	18.3	± 1.5	39.7	± 2.0	52.4	± 2.4	
	MCV fL	84.2	± 5.0	98.0	± 5.0	105.7	± 5.0	
	MCH pg	27.2	± 2.5	31.9	± 2.5	33.7	± 2.5	
	MCHC g/L	323	± 30	325	± 30	319	± 30	
	RDW-CV %	15.6	± 3.0	13.5	± 3.0	13.5	± 3.0	
	RDW-SD fL	47.6	± 10.0	49.5	± 10.0	53.1	± 10.0	
	PLT $\times 10^9/L$	53	± 20	255	± 40	500	± 60	
	MPV fL	8.1	± 3.0	9.3	± 3.0	9.7	± 3.0	
	PCT %*	0.043	± 0.043	0.237	± 0.100	0.485	± 0.200	
	PDW*	15.9	± 3.0	16.1	± 3.0	16.3	± 3.0	
	P-LCC $\times 10^9/L$	10	± 10	69	± 25	155	± 35	
	P-LCR %	19.1	± 10.0	27.0	± 10.0	31.0	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.75	± 1.00	17.15	± 2.50	
	Neu# $\times 10^9/L$	1.66	± 0.30	4.42	± 0.70	11.23	± 1.55	
	Lym# $\times 10^9/L$	1.24	± 0.30	2.17	± 0.70	3.34	± 1.37	
	Mon# $\times 10^9/L$	0.20	± 0.17	0.50	± 0.39	0.86	± 0.69	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.66	± 0.47	1.72	± 1.38	
	Bas# $\times 10^9/L$	0.80	± 0.33	2.13	± 0.78	5.23	± 1.72	
	Neu%	51.0	± 9.0	57.0	± 9.0	65.5	± 9.0	
	Lym%	38.0	± 9.0	28.0	± 9.0	19.5	± 8.0	
	Mon%	6.0	± 5.0	6.5	± 5.0	5.0	± 4.0	
	Eos%	5.0	± 4.0	8.5	± 6.0	10.0	± 8.0	
	Bas%	24.5	± 10.0	27.5	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.11	± 0.18	3.98	± 0.24	4.92	± 0.30	
	HGB g/L	54	± 4	120	± 6	156	± 8	
	HCT %	17.3	± 1.5	38.2	± 2.0	50.4	± 2.4	
	MCV fL	82.0	± 5.0	96.0	± 5.0	102.5	± 5.0	
	MCH pg	25.6	± 2.5	30.2	± 2.5	31.7	± 2.5	
	MCHC g/L	312	± 30	314	± 30	309	± 30	
	RDW-CV %	15.5	± 3.0	13.5	± 3.0	13.5	± 3.0	
	RDW-SD fL	49.5	± 8.0	50.0	± 8.0	52.5	± 8.0	
	PLT $\times 10^9/L$	51	± 20	252	± 40	492	± 60	
	MPV fL	11.2	± 3.0	12.2	± 3.0	12.4	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5390 CRP	WBC $\times 10^9/L$	3.23	± 0.50	7.76	± 1.00	17.39	± 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$	1.65	± 0.30	4.44	± 0.70	11.37	± 1.57	
QC Mode	Lym# $\times 10^9/L$	1.25	± 0.30	2.26	± 0.63	3.43	± 1.40	
	Mon# $\times 10^9/L$	0.17	± 0.13	0.40	± 0.31	0.89	± 0.70	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.66	± 0.47	1.70	± 1.39	
	Bas# $\times 10^9/L$	0.79	± 0.33	2.13	± 0.78	5.29	± 1.74	
	Neu%	50.9	± 9.0	57.2	± 9.0	65.4	± 9.0	
	Lym%	38.7	± 9.0	29.1	± 8.0	19.7	± 8.0	
	Mon%	5.3	± 4.0	5.2	± 4.0	5.1	± 4.0	
	Eos%	5.1	± 4.0	8.5	± 6.0	9.8	± 8.0	
	Bas%	24.5	± 10.0	27.5	± 10.0	30.4	± 10.0	
	RBC $\times 10^{12}/L$	2.11	± 0.18	4.01	± 0.24	4.91	± 0.30	
	HGB g/L	55	± 4	120	± 6	157	± 8	
	HCT %	17.3	± 1.5	38.8	± 2.0	51.5	± 2.4	
	MCV fL	82.2	± 5.0	96.8	± 5.0	104.8	± 5.0	
	MCH pg	26.1	± 2.5	29.9	± 2.5	32.0	± 2.5	
	MCHC g/L	317	± 30	309	± 30	305	± 30	
	RDW-CV %	16.1	± 3.0	14.1	± 3.0	13.9	± 3.0	
	RDW-SD fL	47.4	± 8.0	48.6	± 8.0	51.9	± 8.0	
	PLT $\times 10^9/L$	46	± 20	246	± 40	488	± 60	
	MPV fL	9.3	± 3.0	10.1	± 3.0	10.3	± 3.0	
	PCT %*	0.043	± 0.043	0.248	± 0.100	0.503	± 0.200	
	PDW*	15.6	± 3.0	16.1	± 3.0	16.2	± 3.0	
	P-LCC $\times 10^9/L$	9	± 9	63	± 25	142	± 35	
	P-LCR %	20.3	± 10.0	25.8	± 10.0	29.0	± 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$	3.25	± 0.50	7.75	± 1.00	17.50	± 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$	1.71	± 0.30	4.61	± 0.70	11.81	± 1.58	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$	1.27	± 0.30	2.25	± 0.70	3.50	± 1.40	
	Mon# $\times 10^9/L$	0.08	± 0.07	0.27	± 0.24	0.44	± 0.44	
	Eos# $\times 10^9/L$	0.20	± 0.17	0.62	± 0.47	1.75	± 1.40	
	Bas# $\times 10^9/L$	1.80	± 0.33	5.27	± 0.78	13.48	± 1.75	
	Neu%	52.5	± 9.0	59.5	± 9.0	67.5	± 9.0	
	Lym%	39.0	± 9.0	29.0	± 9.0	20.0	± 8.0	
	Mon%	2.5	± 2.0	3.5	± 3.0	2.5	± 2.5	
	Eos%	6.0	± 5.0	8.0	± 6.0	10.0	± 8.0	
	Bas%	55.5	± 10.0	68.0	± 10.0	77.0	± 10.0	
	RBC $\times 10^{12}/L$	2.11	± 0.18	4.02	± 0.24	4.89	± 0.30	
	HGB g/L	56	± 4	120	± 6	156	± 8	
	HCT %	18.0	± 1.5	39.8	± 2.0	52.3	± 2.4	
	MCV fL	85.5	± 5.0	99.0	± 5.0	107.0	± 5.0	
	MCH pg	26.5	± 2.5	29.9	± 2.5	31.9	± 2.5	
	MCHC g/L	310	± 30	302	± 30	298	± 30	
	RDW-CV %	15.5	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	60.0	± 8.0	61.0	± 8.0	64.5	± 8.0	
	PLT $\times 10^9/L$	47	± 20	240	± 40	466	± 60	
	MPV fL	9.0	± 3.0	9.7	± 3.0	9.9	± 3.0	
	PCT %*	0.042	± 0.042	0.231	± 0.100	0.463	± 0.200	
	PDW*	15.6	± 3.0	16.0	± 3.0	16.2	± 3.0	

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2024-07-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.22 \pm 0.50		7.78 \pm 1.00		17.22 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.70 \pm 0.29		4.62 \pm 0.70		11.49 \pm 1.55	
QC Mode (Software version 1.24.00.16860 or higher)	Lym# $\times 10^9/L$		1.25 \pm 0.29		2.25 \pm 0.70		3.44 \pm 1.38	
	Mon# $\times 10^9/L$		0.09 \pm 0.09		0.23 \pm 0.23		0.45 \pm 0.45	
	Eos# $\times 10^9/L$		0.18 \pm 0.13		0.68 \pm 0.47		1.84 \pm 1.38	
	Bas# $\times 10^9/L$		1.78 \pm 0.33		5.24 \pm 0.78		13.35 \pm 1.73	
	Neu%		52.9 \pm 9.0		59.5 \pm 9.0		66.7 \pm 9.0	
	Lym%		38.7 \pm 9.0		28.9 \pm 9.0		20.0 \pm 8.0	
	Mon%		2.7 \pm 2.5		2.9 \pm 2.9		2.6 \pm 2.6	
	Eos%		5.7 \pm 4.0		8.7 \pm 6.0		10.7 \pm 8.0	
	Bas%		55.2 \pm 10.0		67.4 \pm 10.0		77.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.15 \pm 0.18		4.02 \pm 0.24		4.89 \pm 0.30	
	HGB g/L		56 \pm 4		120 \pm 6		156 \pm 8	
	HCT %		18.1 \pm 1.5		39.5 \pm 2.0		52.0 \pm 2.4	
	MCV fL		84.0 \pm 5.0		98.3 \pm 5.0		106.4 \pm 5.0	
	MCH pg		26.0 \pm 2.5		29.9 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		310 \pm 30		304 \pm 30		300 \pm 30	
	RDW-CV %		15.8 \pm 3.0		14.0 \pm 3.0		13.7 \pm 3.0	
	RDW-SD fL		56.8 \pm 8.0		58.0 \pm 8.0		62.3 \pm 8.0	
	PLT $\times 10^9/L$		48 \pm 20		248 \pm 40		486 \pm 60	
	MPV fL		8.6 \pm 3.0		9.7 \pm 3.0		9.8 \pm 3.0	
	PCT %*		0.041 \pm 0.041		0.241 \pm 0.100		0.476 \pm 0.200	
	PDW*		15.6 \pm 3.0		16.2 \pm 3.0		16.3 \pm 3.0	
BC-5000, BC-5150, BC-5120	WBC $\times 10^9/L$		3.35 \pm 0.50		7.85 \pm 1.00		17.40 \pm 2.50	
BC-5130, BC-5140, BC-5000VET	Neu# $\times 10^9/L$		1.62 \pm 0.41		4.35 \pm 0.95		11.34 \pm 2.09	
QC Mode	Lym# $\times 10^9/L$		1.27 \pm 0.30		2.17 \pm 0.63		3.36 \pm 1.22	
	Mon# $\times 10^9/L$		0.23 \pm 0.23		0.54 \pm 0.54		0.82 \pm 0.82	
	Eos# $\times 10^9/L$		0.20 \pm 0.20		0.67 \pm 0.67		1.62 \pm 1.62	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.12 \pm 0.12		0.26 \pm 0.26	
	Neu%		48.2 \pm 12.0		55.4 \pm 12.0		65.2 \pm 12.0	
	Lym%		38.0 \pm 9.0		27.7 \pm 8.0		19.3 \pm 7.0	
	Mon%		6.9 \pm 6.9		6.9 \pm 6.9		4.7 \pm 4.7	
	Eos%		5.9 \pm 5.9		8.5 \pm 8.5		9.3 \pm 9.3	
	Bas%		1.0 \pm 1.0		1.5 \pm 1.5		1.5 \pm 1.5	
	RBC $\times 10^{12}/L$		2.14 \pm 0.18		4.06 \pm 0.24		5.00 \pm 0.30	
	HGB g/L		56 \pm 4		122 \pm 6		160 \pm 8	
	HCT %		17.9 \pm 1.5		38.9 \pm 2.0		50.8 \pm 2.4	
	MCV fL		83.6 \pm 5.0		95.9 \pm 5.0		101.6 \pm 5.0	
	MCH pg		26.2 \pm 2.5		30.0 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		313 \pm 30		313 \pm 30		315 \pm 30	
	RDW-CV %		19.3 \pm 3.0		16.4 \pm 3.0		16.1 \pm 3.0	
	RDW-SD fL		59.3 \pm 8.0		58.3 \pm 8.0		60.8 \pm 8.0	
	PLT $\times 10^9/L$		50 \pm 20		253 \pm 40		502 \pm 60	
	MPV fL		10.6 \pm 3.0		11.6 \pm 3.0		11.8 \pm 3.0	
	PCT %*		0.053 \pm 0.053		0.293 \pm 0.100		0.592 \pm 0.200	
	PDW*		15.5 \pm 3.0		16.1 \pm 3.0		16.5 \pm 3.0	
	P-LCC $\times 10^9/L$ **		16 \pm 15		93 \pm 25		200 \pm 35	
	P-LCR %**		32.7 \pm 10.0		36.6 \pm 10.0		39.9 \pm 10.0	

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

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BC2405B
2024-07-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.75	± 1.00	17.50	± 2.50	
	Neu# $\times 10^9/L$	1.71	± 0.30	4.61	± 0.70	11.81	± 1.58	
	Lym# $\times 10^9/L$	1.27	± 0.30	2.25	± 0.70	3.50	± 1.40	
	Mon# $\times 10^9/L$	0.08	± 0.07	0.27	± 0.24	0.44	± 0.44	
	Eos# $\times 10^9/L$	0.20	± 0.17	0.62	± 0.47	1.75	± 1.40	
	Neu%	52.5	± 9.0	59.5	± 9.0	67.5	± 9.0	
	Lym%	39.0	± 9.0	29.0	± 9.0	20.0	± 8.0	
	Mon%	2.5	± 2.0	3.5	± 3.0	2.5	± 2.5	
	Eos%	6.0	± 5.0	8.0	± 6.0	10.0	± 8.0	
	RBC $\times 10^{12}/L$	2.11	± 0.18	4.02	± 0.24	4.89	± 0.30	
	HGB g/L	56	± 4	120	± 6	156	± 8	
	HCT %	18.0	± 1.5	39.8	± 2.0	52.3	± 2.4	
	MCV fL	85.5	± 5.0	99.0	± 5.0	107.0	± 5.0	
	MCH pg	26.5	± 2.5	29.9	± 2.5	31.9	± 2.5	
	MCHC g/L	310	± 30	302	± 30	298	± 30	
	RDW-CV %	15.5	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	60.0	± 8.0	61.0	± 8.0	64.5	± 8.0	
	PLT $\times 10^9/L$	47	± 20	240	± 40	466	± 60	
	MPV fL	9.0	± 3.0	9.7	± 3.0	9.9	± 3.0	
	PCT %*	0.042	± 0.042	0.231	± 0.100	0.463	± 0.200	
	PDW*	15.6	± 3.0	16.0	± 3.0	16.2	± 3.0	

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