

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2403B



2024-05-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2403BL	LOT	BC2403BN	LOT	BC2403BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.46	± 0.50	7.96	± 1.00	17.78	± 2.50	
	Neu# $\times 10^9/L$	1.65	± 0.31	4.45	± 0.72	11.47	± 1.60	
	Lym# $\times 10^9/L$	1.41	± 0.32	2.40	± 0.64	3.66	± 1.43	
	Mon# $\times 10^9/L$	0.22	± 0.18	0.51	± 0.40	1.17	± 0.89	
	Eos# $\times 10^9/L$	0.15	± 0.11	0.52	± 0.40	1.30	± 1.07	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	47.8	± 9.0	56.0	± 9.0	64.5	± 9.0	
	Lym%	40.7	± 9.0	30.1	± 8.0	20.6	± 8.0	
	Mon%	6.3	± 5.0	6.4	± 5.0	6.6	± 5.0	
	Eos%	4.2	± 3.0	6.5	± 5.0	7.3	± 6.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.22	± 0.18	4.13	± 0.24	4.93	± 0.30	
	HGB g/L	61	± 4	130	± 6	168	± 8	
	HCT %	18.4	± 1.5	39.2	± 2.0	51.7	± 2.4	
	MCV fL	83.1	± 5.0	95.0	± 5.0	104.8	± 5.0	
	MCH pg	27.5	± 2.5	31.5	± 2.5	34.1	± 2.5	
	MCHC g/L	331	± 30	331	± 30	325	± 30	
	RDW-CV %	15.4	± 3.0	13.6	± 3.0	13.4	± 3.0	
	RDW-SD fL	45.2	± 10.0	47.5	± 10.0	51.5	± 10.0	
	PLT $\times 10^9/L$	52	± 20	249	± 40	500	± 60	
	MPV fL	8.2	± 3.0	10.0	± 3.0	9.0	± 3.0	
	PCT %*	0.043	± 0.043	0.249	± 0.100	0.450	± 0.200	
	PDW*	15.7	± 3.0	16.4	± 3.0	15.7	± 3.0	
	P-LCC $\times 10^9/L$	10	± 10	81	± 25	116	± 35	
	P-LCR %	19.1	± 10.0	32.5	± 10.0	23.1	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	7.80	± 1.00	17.10	± 2.50	
	Neu# $\times 10^9/L$	1.64	± 0.30	4.56	± 0.71	11.20	± 1.54	
	Lym# $\times 10^9/L$	1.24	± 0.30	2.15	± 0.71	3.33	± 1.37	
	Mon# $\times 10^9/L$	0.20	± 0.17	0.51	± 0.40	0.94	± 0.69	
	Eos# $\times 10^9/L$	0.18	± 0.13	0.59	± 0.48	1.62	± 1.37	
	Bas# $\times 10^9/L$	0.86	± 0.33	2.15	± 0.79	5.22	± 1.72	
	Neu%	50.5	± 9.0	58.5	± 9.0	65.5	± 9.0	
	Lym%	38.0	± 9.0	27.5	± 9.0	19.5	± 8.0	
	Mon%	6.0	± 5.0	6.5	± 5.0	5.5	± 4.0	
	Eos%	5.5	± 4.0	7.5	± 6.0	9.5	± 8.0	
	Bas%	26.5	± 10.0	27.5	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.14	± 0.18	4.04	± 0.24	4.89	± 0.30	
	HGB g/L	55	± 4	119	± 6	155	± 8	
	HCT %	17.4	± 1.5	37.4	± 2.0	49.6	± 2.4	
	MCV fL	81.5	± 5.0	92.5	± 5.0	101.5	± 5.0	
	MCH pg	25.7	± 2.5	29.5	± 2.5	31.7	± 2.5	
	MCHC g/L	315	± 30	318	± 30	312	± 30	
	RDW-CV %	15.0	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	47.0	± 8.0	47.5	± 8.0	50.5	± 8.0	
	PLT $\times 10^9/L$	51	± 20	243	± 40	494	± 60	
	MPV fL	11.4	± 3.0	12.9	± 3.0	11.7	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2403BL	LOT	BC2403BN	LOT	BC2403BH	
BC-5390 CRP	WBC $\times 10^9/L$	3.36	± 0.50	7.93	± 1.00	17.62	± 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$	1.67	± 0.31	4.56	± 0.72	11.43	± 1.59	
QC Mode	Lym# $\times 10^9/L$	1.31	± 0.31	2.29	± 0.64	3.49	± 1.41	
	Mon# $\times 10^9/L$	0.18	± 0.14	0.44	± 0.40	0.99	± 0.71	
	Eos# $\times 10^9/L$	0.20	± 0.17	0.64	± 0.48	1.71	± 1.41	
	Bas# $\times 10^9/L$	0.89	± 0.34	2.18	± 0.80	5.44	± 1.76	
	Neu%	49.8	± 9.0	57.4	± 9.0	64.9	± 9.0	
	Lym%	38.9	± 9.0	28.9	± 8.0	19.8	± 8.0	
	Mon%	5.3	± 4.0	5.6	± 5.0	5.6	± 4.0	
	Eos%	6.0	± 5.0	8.1	± 6.0	9.7	± 8.0	
	Bas%	26.4	± 10.0	27.5	± 10.0	30.9	± 10.0	
	RBC $\times 10^{12}/L$	2.17	± 0.18	4.07	± 0.24	4.90	± 0.30	
	HGB g/L	56	± 4	120	± 6	157	± 8	
	HCT %	17.6	± 1.5	38.0	± 2.0	50.7	± 2.4	
	MCV fL	80.9	± 5.0	93.4	± 5.0	103.5	± 5.0	
	MCH pg	25.8	± 2.5	29.5	± 2.5	32.0	± 2.5	
	MCHC g/L	319	± 30	316	± 30	310	± 30	
	RDW-CV %	15.6	± 3.0	14.1	± 3.0	13.7	± 3.0	
	RDW-SD fL	44.6	± 8.0	46.2	± 8.0	50.2	± 8.0	
	PLT $\times 10^9/L$	47	± 20	242	± 40	497	± 60	
	MPV fL	9.3	± 3.0	10.8	± 3.0	9.5	± 3.0	
	PCT %*	0.044	± 0.044	0.261	± 0.100	0.472	± 0.200	
	PDW*	15.4	± 3.0	16.3	± 3.0	15.9	± 3.0	
	P-LCC $\times 10^9/L$	9	± 9	75	± 25	108	± 35	
	P-LCR %	19.9	± 10.0	30.9	± 10.0	21.8	± 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$	3.30	± 0.50	7.75	± 1.00	17.35	± 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$	1.65	± 0.30	4.53	± 0.70	11.45	± 1.57	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$	1.29	± 0.30	2.25	± 0.70	3.38	± 1.39	
	Mon# $\times 10^9/L$	0.15	± 0.14	0.35	± 0.28	0.78	± 0.70	
	Eos# $\times 10^9/L$	0.21	± 0.17	0.62	± 0.47	1.74	± 1.40	
	Bas# $\times 10^9/L$	2.01	± 0.33	5.23	± 0.78	13.53	± 1.74	
	Neu%	50.0	± 9.0	58.5	± 9.0	66.0	± 9.0	
	Lym%	39.0	± 9.0	29.0	± 9.0	19.5	± 8.0	
	Mon%	4.5	± 4.0	4.5	± 3.5	4.5	± 4.0	
	Eos%	6.5	± 5.0	8.0	± 6.0	10.0	± 8.0	
	Bas%	61.0	± 10.0	67.5	± 10.0	78.0	± 10.0	
	RBC $\times 10^{12}/L$	2.17	± 0.18	4.07	± 0.24	4.86	± 0.30	
	HGB g/L	57	± 4	121	± 6	156	± 8	
	HCT %	18.4	± 1.5	39.5	± 2.0	51.8	± 2.4	
	MCV fL	85.0	± 5.0	97.0	± 5.0	106.5	± 5.0	
	MCH pg	26.3	± 2.5	29.7	± 2.5	32.1	± 2.5	
	MCHC g/L	309	± 30	307	± 30	301	± 30	
	RDW-CV %	15.0	± 3.0	13.5	± 3.0	13.0	± 3.0	
	RDW-SD fL	57.0	± 8.0	59.0	± 8.0	62.5	± 8.0	
	PLT $\times 10^9/L$	49	± 20	230	± 40	470	± 60	
	MPV fL	9.3	± 3.0	10.3	± 3.0	9.2	± 3.0	
	PCT %*	0.045	± 0.045	0.237	± 0.100	0.437	± 0.200	
	PDW*	15.5	± 3.0	16.1	± 3.0	15.8	± 3.0	

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BC-5D

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LOT

BC2403B



2024-05-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2403BL	LOT	BC2403BN	LOT	BC2403BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.30	± 0.50	7.86	± 1.00	17.36	± 2.50	
	Neu# $\times 10^9/L$	1.66	± 0.30	4.62	± 0.71	11.46	± 1.57	
	Lym# $\times 10^9/L$	1.28	± 0.30	2.29	± 0.71	3.37	± 1.39	
	Mon# $\times 10^9/L$	0.14	± 0.10	0.31	± 0.24	0.78	± 0.52	
	Eos# $\times 10^9/L$	0.22	± 0.17	0.64	± 0.48	1.75	± 1.39	
	Bas# $\times 10^9/L$	2.00	± 0.33	5.29	± 0.79	13.59	± 1.74	
	Neu%	50.3	± 9.0	58.8	± 9.0	66.0	± 9.0	
	Lym%	38.8	± 9.0	29.1	± 9.0	19.4	± 8.0	
	Mon%	4.3	± 3.0	4.0	± 3.0	4.5	± 3.0	
	Eos%	6.6	± 5.0	8.1	± 6.0	10.1	± 8.0	
	Bas%	60.6	± 10.0	67.3	± 10.0	78.3	± 10.0	
	RBC $\times 10^{12}/L$	2.18	± 0.18	4.07	± 0.24	4.86	± 0.30	
	HGB g/L	57	± 4	121	± 6	157	± 8	
	HCT %	18.2	± 1.5	38.9	± 2.0	51.2	± 2.4	
	MCV fL	83.6	± 5.0	95.6	± 5.0	105.3	± 5.0	
	MCH pg	26.1	± 2.5	29.7	± 2.5	32.3	± 2.5	
	MCHC g/L	313	± 30	311	± 30	307	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.6	± 3.0	
	RDW-SD fL	53.9	± 8.0	55.8	± 8.0	60.3	± 8.0	
	PLT $\times 10^9/L$	48	± 20	241	± 40	489	± 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL	8.8	± 3.0	10.2	± 3.0	9.0	± 3.0	
	PCT %*	0.042	± 0.042	0.246	± 0.100	0.440	± 0.200	
	PDW*	15.5	± 3.0	16.3	± 3.0	15.9	± 3.0	
	WBC $\times 10^9/L$	3.36	± 0.50	7.82	± 1.00	17.33	± 2.50	
	Neu# $\times 10^9/L$	1.55	± 0.41	4.29	± 0.94	10.82	± 2.08	
	Lym# $\times 10^9/L$	1.29	± 0.31	2.25	± 0.63	3.22	± 1.22	
	Mon# $\times 10^9/L$	0.27	± 0.27	0.58	± 0.58	1.32	± 1.32	
	Eos# $\times 10^9/L$	0.22	± 0.22	0.60	± 0.60	1.68	± 1.68	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.10	± 0.10	0.29	± 0.29	
	Neu%	46.0	± 12.0	54.8	± 12.0	62.4	± 12.0	
	Lym%	38.5	± 9.0	28.8	± 8.0	18.6	± 7.0	
	Mon%	7.9	± 7.9	7.4	± 7.4	7.6	± 7.6	
	Eos%	6.6	± 6.6	7.7	± 7.7	9.7	± 9.7	
	Bas%	1.0	± 1.0	1.3	± 1.3	1.7	± 1.7	
	RBC $\times 10^{12}/L$	2.20	± 0.18	4.13	± 0.24	4.95	± 0.30	
	HGB g/L	57	± 4	123	± 6	160	± 8	
	HCT %	18.2	± 1.5	38.7	± 2.0	50.4	± 2.4	
	MCV fL	82.9	± 5.0	93.7	± 5.0	101.9	± 5.0	
	MCH pg	25.9	± 2.5	29.8	± 2.5	32.3	± 2.5	
	MCHC g/L	313	± 30	318	± 30	317	± 30	
	RDW-CV %	18.6	± 3.0	16.2	± 3.0	15.7	± 3.0	
	RDW-SD fL	56.0	± 8.0	55.8	± 8.0	58.9	± 8.0	
	PLT $\times 10^9/L$	52	± 20	245	± 40	510	± 60	
	MPV fL	10.8	± 3.0	12.3	± 3.0	10.9	± 3.0	
	PCT %*	0.056	± 0.056	0.301	± 0.100	0.556	± 0.200	
	PDW*	15.5	± 3.0	16.3	± 3.0	16.1	± 3.0	
	P-LCC $\times 10^9/L$ **	17	± 15	99	± 25	161	± 35	
	P-LCR %**	32.1	± 10.0	40.6	± 10.0	31.5	± 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

LOT



BC2403B

2024-05-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2403BL	LOT	BC2403BN	LOT	BC2403BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.30 \pm 0.50		7.75 \pm 1.00		17.35 \pm 2.50	
	Neu# $\times 10^9/L$		1.65 \pm 0.30		4.53 \pm 0.70		11.45 \pm 1.57	
	Lym# $\times 10^9/L$		1.29 \pm 0.30		2.25 \pm 0.70		3.38 \pm 1.39	
	Mon# $\times 10^9/L$		0.15 \pm 0.14		0.35 \pm 0.28		0.78 \pm 0.70	
	Eos# $\times 10^9/L$		0.21 \pm 0.17		0.62 \pm 0.47		1.74 \pm 1.40	
	Neu%		50.0 \pm 9.0		58.5 \pm 9.0		66.0 \pm 9.0	
	Lym%		39.0 \pm 9.0		29.0 \pm 9.0		19.5 \pm 8.0	
	Mon%		4.5 \pm 4.0		4.5 \pm 3.5		4.5 \pm 4.0	
	Eos%		6.5 \pm 5.0		8.0 \pm 6.0		10.0 \pm 8.0	
	RBC $\times 10^{12}/L$		2.17 \pm 0.18		4.07 \pm 0.24		4.86 \pm 0.30	
	HGB g/L		57 \pm 4		121 \pm 6		156 \pm 8	
	HCT %		18.4 \pm 1.5		39.5 \pm 2.0		51.8 \pm 2.4	
	MCV fL		85.0 \pm 5.0		97.0 \pm 5.0		106.5 \pm 5.0	
	MCH pg		26.3 \pm 2.5		29.7 \pm 2.5		32.1 \pm 2.5	
	MCHC g/L		309 \pm 30		307 \pm 30		301 \pm 30	
	RDW-CV %		15.0 \pm 3.0		13.5 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		57.0 \pm 8.0		59.0 \pm 8.0		62.5 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		230 \pm 40		470 \pm 60	
	MPV fL		9.3 \pm 3.0		10.3 \pm 3.0		9.2 \pm 3.0	
	PCT %*		0.045 \pm 0.045		0.237 \pm 0.100		0.437 \pm 0.200	
	PDW*		15.5 \pm 3.0		16.1 \pm 3.0		15.8 \pm 3.0	

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