

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2409B



2024-11-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2409BL	LOT	BC2409BN	LOT	BC2409BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.44	± 0.50	7.95	± 1.00	17.76	± 2.50	
	Neu# $\times 10^9/L$	1.65	± 0.31	4.42	± 0.72	11.31	± 1.78	
	Lym# $\times 10^9/L$	1.36	± 0.31	2.32	± 0.64	3.55	± 1.42	
	Mon# $\times 10^9/L$	0.26	± 0.21	0.61	± 0.48	1.21	± 1.07	
	Eos# $\times 10^9/L$	0.14	± 0.11	0.52	± 0.40	1.51	± 1.07	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	47.8	± 9.0	55.5	± 9.0	63.7	± 10.0	
	Lym%	39.6	± 9.0	29.2	± 8.0	20.0	± 8.0	
	Mon%	7.6	± 6.0	7.7	± 6.0	6.8	± 6.0	
	Eos%	4.0	± 3.0	6.6	± 5.0	8.5	± 6.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.41	± 0.18	4.14	± 0.24	5.00	± 0.30	
	HGB g/L	64	± 4	129	± 6	167	± 8	
	HCT %	19.8	± 1.5	39.3	± 2.0	51.6	± 2.4	
	MCV fL	82.2	± 5.0	94.9	± 5.0	103.1	± 5.0	
	MCH pg	26.6	± 2.5	31.2	± 2.5	33.4	± 2.5	
	MCHC g/L	323	± 30	328	± 30	324	± 30	
	RDW-CV %	16.0	± 3.0	13.8	± 3.0	14.0	± 3.0	
	RDW-SD fL	47.0	± 10.0	48.6	± 10.0	53.3	± 10.0	
	PLT $\times 10^9/L$	52	± 20	259	± 40	506	± 60	
	MPV fL	9.9	± 3.0	8.7	± 3.0	9.0	± 3.0	
	PCT %*	0.051	± 0.051	0.225	± 0.100	0.455	± 0.200	
	PDW*	17.0	± 3.0	16.1	± 3.0	16.3	± 3.0	
	P-LCC $\times 10^9/L$	21	± 15	57	± 25	132	± 35	
	P-LCR %	41.0	± 10.0	22.1	± 10.0	26.1	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.10	± 0.50	7.65	± 1.00	16.75	± 2.50	
	Neu# $\times 10^9/L$	1.57	± 0.28	4.36	± 0.69	11.39	± 1.68	
	Lym# $\times 10^9/L$	1.16	± 0.28	2.18	± 0.69	3.02	± 1.35	
	Mon# $\times 10^9/L$	0.22	± 0.16	0.50	± 0.39	0.84	± 0.68	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.61	± 0.46	1.51	± 1.18	
	Bas# $\times 10^9/L$	0.79	± 0.31	2.10	± 0.77	5.11	± 1.68	
	Neu%	50.5	± 9.0	57.0	± 9.0	68.0	± 10.0	
	Lym%	37.5	± 9.0	28.5	± 9.0	18.0	± 8.0	
	Mon%	7.0	± 5.0	6.5	± 5.0	5.0	± 4.0	
	Eos%	5.0	± 4.0	8.0	± 6.0	9.0	± 7.0	
	Bas%	25.5	± 10.0	27.5	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.35	± 0.18	4.10	± 0.24	4.99	± 0.30	
	HGB g/L	59	± 4	120	± 6	156	± 8	
	HCT %	18.9	± 1.5	37.9	± 2.0	49.9	± 2.4	
	MCV fL	80.5	± 5.0	92.5	± 5.0	100.0	± 5.0	
	MCH pg	25.1	± 2.5	29.3	± 2.5	31.3	± 2.5	
	MCHC g/L	312	± 30	316	± 30	313	± 30	
	RDW-CV %	15.5	± 3.0	13.5	± 3.0	13.5	± 3.0	
	RDW-SD fL	48.5	± 8.0	48.5	± 8.0	52.0	± 8.0	
	PLT $\times 10^9/L$	52	± 20	253	± 40	497	± 60	
	MPV fL	13.2	± 3.0	11.5	± 3.0	11.7	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2409BL	LOT	BC2409BN	LOT	BC2409BH	
BC-5390 CRP	WBC $\times 10^9/L$	3.19	± 0.50	7.74	± 1.00	16.76	± 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$	1.60	± 0.29	4.43	± 0.70	11.05	± 1.68	
QC Mode	Lym# $\times 10^9/L$	1.22	± 0.29	2.22	± 0.62	3.03	± 1.34	
	Mon# $\times 10^9/L$	0.21	± 0.17	0.47	± 0.39	1.09	± 0.84	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.62	± 0.47	1.59	± 1.18	
	Bas# $\times 10^9/L$	0.80	± 0.32	2.14	± 0.78	5.11	± 1.68	
	Neu%	50.3	± 9.0	57.2	± 9.0	65.9	± 10.0	
	Lym%	38.1	± 9.0	28.7	± 8.0	18.1	± 8.0	
	Mon%	6.5	± 5.0	6.1	± 5.0	6.5	± 5.0	
	Eos%	5.1	± 4.0	8.0	± 6.0	9.5	± 7.0	
	Bas%	25.0	± 10.0	27.7	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.35	± 0.18	4.10	± 0.24	4.96	± 0.30	
	HGB g/L	60	± 4	121	± 6	157	± 8	
	HCT %	19.0	± 1.5	38.2	± 2.0	50.5	± 2.4	
	MCV fL	80.8	± 5.0	93.1	± 5.0	101.9	± 5.0	
	MCH pg	25.5	± 2.5	29.5	± 2.5	31.7	± 2.5	
	MCHC g/L	316	± 30	317	± 30	311	± 30	
	RDW-CV %	16.2	± 3.0	14.4	± 3.0	14.4	± 3.0	
	RDW-SD fL	46.2	± 8.0	47.6	± 8.0	51.8	± 8.0	
	PLT $\times 10^9/L$	47	± 20	247	± 40	488	± 60	
	MPV fL	11.4	± 3.0	9.4	± 3.0	9.7	± 3.0	
	PCT %*	0.054	± 0.054	0.232	± 0.100	0.473	± 0.200	
	PDW*	16.5	± 3.0	16.2	± 3.0	16.4	± 3.0	
	P-LCC $\times 10^9/L$	20	± 15	53	± 25	123	± 35	
	P-LCR %	42.1	± 10.0	21.5	± 10.0	25.3	± 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$	3.15	± 0.50	7.63	± 1.00	17.05	± 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$	1.67	± 0.29	4.57	± 0.69	11.25	± 1.54	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$	1.21	± 0.29	2.17	± 0.69	3.58	± 1.37	
	Mon# $\times 10^9/L$	0.11	± 0.10	0.29	± 0.27	0.60	± 0.52	
	Eos# $\times 10^9/L$	0.17	± 0.13	0.60	± 0.47	1.62	± 1.37	
	Bas# $\times 10^9/L$	1.80	± 0.32	5.21	± 0.77	13.13	± 1.71	
	Neu%	52.9	± 9.0	59.9	± 9.0	66.0	± 9.0	
	Lym%	38.3	± 9.0	28.5	± 9.0	21.0	± 8.0	
	Mon%	3.5	± 3.0	3.8	± 3.5	3.5	± 3.0	
	Eos%	5.3	± 4.0	7.8	± 6.0	9.5	± 8.0	
	Bas%	57.0	± 10.0	68.3	± 10.0	77.0	± 10.0	
	RBC $\times 10^{12}/L$	2.33	± 0.18	4.06	± 0.24	4.94	± 0.30	
	HGB g/L	60	± 4	120	± 6	156	± 8	
	HCT %	19.5	± 1.5	39.2	± 2.0	51.8	± 2.4	
	MCV fL	83.8	± 5.0	96.5	± 5.0	104.8	± 5.0	
	MCH pg	25.8	± 2.5	29.6	± 2.5	31.6	± 2.5	
	MCHC g/L	307	± 30	306	± 30	301	± 30	
	RDW-CV %	15.8	± 3.0	13.8	± 3.0	13.8	± 3.0	
	RDW-SD fL	58.5	± 8.0	59.0	± 8.0	64.0	± 8.0	
	PLT $\times 10^9/L$	46	± 20	240	± 40	477	± 60	
	MPV fL	11.0	± 3.0	9.1	± 3.0	9.3	± 3.0	
	PCT %*	0.051	± 0.051	0.215	± 0.100	0.438	± 0.200	
	PDW*	16.6	± 3.0	16.2	± 3.0	16.4	± 3.0	

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LOT

BC2409B



2024-11-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2409BL	LOT	BC2409BN	LOT	BC2409BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.18	± 0.50	7.74	± 1.00	16.62	± 2.50	
	Neu# $\times 10^9/L$	1.70	± 0.29	4.62	± 0.70	11.83	± 1.67	
	Lym# $\times 10^9/L$	1.20	± 0.29	2.21	± 0.70	2.91	± 1.50	
	Mon# $\times 10^9/L$	0.11	± 0.10	0.24	± 0.24	0.38	± 0.38	
	Eos# $\times 10^9/L$	0.17	± 0.13	0.67	± 0.58	1.50	± 1.17	
	Bas# $\times 10^9/L$	1.81	± 0.32	5.33	± 0.78	12.93	± 1.67	
	Neu%	53.2	± 9.0	59.7	± 9.0	71.2	± 10.0	
	Lym%	37.8	± 9.0	28.5	± 9.0	17.5	± 9.0	
	Mon%	3.5	± 3.0	3.1	± 3.1	2.3	± 2.3	
	Eos%	5.5	± 4.0	8.7	± 7.5	9.0	± 7.0	
	Bas%	57.0	± 10.0	68.8	± 10.0	77.8	± 10.0	
	RBC $\times 10^{12}/L$	2.38	± 0.18	4.11	± 0.24	4.94	± 0.30	
	HGB g/L	60	± 4	121	± 6	157	± 8	
	HCT %	19.7	± 1.5	39.2	± 2.0	51.3	± 2.4	
	MCV fL	82.7	± 5.0	95.4	± 5.0	103.9	± 5.0	
	MCH pg	25.2	± 2.5	29.4	± 2.5	31.8	± 2.5	
	MCHC g/L	305	± 30	309	± 30	306	± 30	
	RDW-CV %	16.1	± 3.0	14.3	± 3.0	14.3	± 3.0	
	RDW-SD fL	56.0	± 8.0	57.3	± 8.0	62.6	± 8.0	
	PLT $\times 10^9/L$	49	± 20	250	± 40	490	± 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL	10.9	± 3.0	8.9	± 3.0	9.1	± 3.0	
	PCT %*	0.053	± 0.053	0.223	± 0.100	0.446	± 0.200	
	PDW*	16.7	± 3.0	16.2	± 3.0	16.4	± 3.0	
	WBC $\times 10^9/L$	3.32	± 0.50	7.83	± 1.00	17.19	± 2.50	
	Neu# $\times 10^9/L$	1.62	± 0.40	4.41	± 0.94	11.68	± 2.07	
	Lym# $\times 10^9/L$	1.26	± 0.30	2.20	± 0.63	2.97	± 1.38	
	Mon# $\times 10^9/L$	0.24	± 0.24	0.51	± 0.51	0.64	± 0.64	
	Eos# $\times 10^9/L$	0.17	± 0.17	0.61	± 0.61	1.62	± 1.62	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.10	± 0.10	0.28	± 0.28	
	Neu%	48.8	± 12.0	56.3	± 12.0	68.0	± 12.0	
	Lym%	37.9	± 9.0	28.1	± 8.0	17.3	± 8.0	
	Mon%	7.3	± 7.3	6.5	± 6.5	3.7	± 3.7	
	Eos%	5.1	± 5.1	7.8	± 7.8	9.4	± 9.4	
	Bas%	0.9	± 0.9	1.3	± 1.3	1.6	± 1.6	
	RBC $\times 10^{12}/L$	2.39	± 0.18	4.15	± 0.24	5.01	± 0.30	
	HGB g/L	61	± 4	123	± 6	161	± 8	
	HCT %	19.5	± 1.5	38.8	± 2.0	50.3	± 2.4	
	MCV fL	81.7	± 5.0	93.5	± 5.0	100.3	± 5.0	
	MCH pg	25.5	± 2.5	29.6	± 2.5	32.1	± 2.5	
	MCHC g/L	312	± 30	317	± 30	320	± 30	
	RDW-CV %	19.3	± 3.0	16.8	± 3.0	16.7	± 3.0	
	RDW-SD fL	57.7	± 8.0	57.2	± 8.0	60.9	± 8.0	
	PLT $\times 10^9/L$	51	± 20	258	± 40	516	± 60	
	MPV fL	12.7	± 3.0	10.7	± 3.0	10.9	± 3.0	
	PCT %*	0.065	± 0.065	0.276	± 0.100	0.562	± 0.200	
	PDW*	16.1	± 3.0	16.2	± 3.0	16.6	± 3.0	
	P-LCC $\times 10^9/L$ **	26	± 15	78	± 25	174	± 35	
	P-LCR %**	50.5	± 10.0	30.1	± 10.0	33.7	± 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

BC2409B

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Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2409BL	LOT	BC2409BN	LOT	BC2409BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC ×10 ⁹ /L		3.15 ± 0.50		7.63 ± 1.00		17.05 ± 2.50	
	Neu# ×10 ⁹ /L		1.67 ± 0.29		4.57 ± 0.69		11.25 ± 1.54	
	Lym# ×10 ⁹ /L		1.21 ± 0.29		2.17 ± 0.69		3.58 ± 1.37	
	Mon# ×10 ⁹ /L		0.11 ± 0.10		0.29 ± 0.27		0.60 ± 0.52	
	Eos# ×10 ⁹ /L		0.17 ± 0.13		0.60 ± 0.47		1.62 ± 1.37	
	Neu%		52.9 ± 9.0		59.9 ± 9.0		66.0 ± 9.0	
	Lym%		38.3 ± 9.0		28.5 ± 9.0		21.0 ± 8.0	
	Mon%		3.5 ± 3.0		3.8 ± 3.5		3.5 ± 3.0	
	Eos%		5.3 ± 4.0		7.8 ± 6.0		9.5 ± 8.0	
	RBC ×10 ¹² /L		2.33 ± 0.18		4.06 ± 0.24		4.94 ± 0.30	
	HGB g/L		60 ± 4		120 ± 6		156 ± 8	
	HCT %		19.5 ± 1.5		39.2 ± 2.0		51.8 ± 2.4	
	MCV fL		83.8 ± 5.0		96.5 ± 5.0		104.8 ± 5.0	
	MCH pg		25.8 ± 2.5		29.6 ± 2.5		31.6 ± 2.5	
	MCHC g/L		307 ± 30		306 ± 30		301 ± 30	
	RDW-CV %		15.8 ± 3.0		13.8 ± 3.0		13.8 ± 3.0	
	RDW-SD fL		58.5 ± 8.0		59.0 ± 8.0		64.0 ± 8.0	
	PLT ×10 ⁹ /L		46 ± 20		240 ± 40		477 ± 60	
	MPV fL		11.0 ± 3.0		9.1 ± 3.0		9.3 ± 3.0	
	PCT %*		0.051 ± 0.051		0.215 ± 0.100		0.438 ± 0.200	
	PDW*		16.6 ± 3.0		16.2 ± 3.0		16.4 ± 3.0	

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