

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2411B



2025-01-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2411BL	LOT	BC2411BN	LOT	BC2411BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.33	± 0.50	7.79	± 1.00	17.93	± 2.50	
	Neu# $\times 10^9/L$	1.62	± 0.30	4.27	± 0.70	11.69	± 1.80	
	Lym# $\times 10^9/L$	1.32	± 0.30	2.41	± 0.63	3.39	± 1.44	
	Mon# $\times 10^9/L$	0.21	± 0.17	0.48	± 0.40	1.13	± 0.90	
	Eos# $\times 10^9/L$	0.15	± 0.11	0.55	± 0.48	1.54	± 1.08	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.9	± 9.0	55.0	± 9.0	65.2	± 10.0	
	Lym%	39.5	± 9.0	30.9	± 8.0	18.9	± 8.0	
	Mon%	6.2	± 5.0	6.1	± 5.0	6.3	± 5.0	
	Eos%	4.4	± 3.0	7.0	± 6.0	8.6	± 6.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.20	± 0.18	4.08	± 0.24	4.88	± 0.30	
	HGB g/L	60	± 4	128	± 6	165	± 8	
	HCT %	18.4	± 1.5	38.8	± 2.0	51.1	± 2.4	
	MCV fL	83.6	± 5.0	95.0	± 5.0	104.7	± 5.0	
	MCH pg	27.3	± 2.5	31.4	± 2.5	33.8	± 2.5	
	MCHC g/L	326	± 30	330	± 30	323	± 30	
	RDW-CV %	15.8	± 3.0	14.0	± 3.0	13.3	± 3.0	
	RDW-SD fL	46.9	± 10.0	49.0	± 10.0	50.7	± 10.0	
	PLT $\times 10^9/L$	52	± 20	254	± 40	504	± 60	
	MPV fL	9.1	± 3.0	9.2	± 3.0	8.9	± 3.0	
	PCT %*	0.047	± 0.047	0.234	± 0.100	0.449	± 0.200	
	PDW*	17.4	± 3.0	16.3	± 3.0	16.4	± 3.0	
	P-LCC $\times 10^9/L$	16	± 15	68	± 25	131	± 35	
	P-LCR %	31.6	± 10.0	26.7	± 10.0	25.9	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.15	± 0.50	7.60	± 1.00	16.95	± 2.50	
	Neu# $\times 10^9/L$	1.61	± 0.29	4.37	± 0.69	11.44	± 1.70	
	Lym# $\times 10^9/L$	1.26	± 0.29	2.24	± 0.69	3.14	± 1.36	
	Mon# $\times 10^9/L$	0.13	± 0.10	0.38	± 0.23	0.76	± 0.51	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.61	± 0.46	1.61	± 1.36	
	Bas# $\times 10^9/L$	0.80	± 0.32	2.09	± 0.76	5.34	± 1.70	
	Neu%	51.0	± 9.0	57.5	± 9.0	67.5	± 10.0	
	Lym%	40.0	± 9.0	29.5	± 9.0	18.5	± 8.0	
	Mon%	4.0	± 3.0	5.0	± 3.0	4.5	± 3.0	
	Eos%	5.0	± 4.0	8.0	± 6.0	9.5	± 8.0	
	Bas%	25.5	± 10.0	27.5	± 10.0	31.5	± 10.0	
	RBC $\times 10^{12}/L$	2.13	± 0.18	4.03	± 0.24	4.85	± 0.30	
	HGB g/L	55	± 4	119	± 6	155	± 8	
	HCT %	17.5	± 1.5	37.5	± 2.0	49.5	± 2.4	
	MCV fL	82.0	± 5.0	93.0	± 5.0	102.0	± 5.0	
	MCH pg	25.8	± 2.5	29.5	± 2.5	32.0	± 2.5	
	MCHC g/L	315	± 30	318	± 30	313	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	48.5	± 8.0	50.0	± 8.0	51.5	± 8.0	
	PLT $\times 10^9/L$	54	± 20	252	± 40	493	± 60	
	MPV fL	12.5	± 3.0	12.2	± 3.0	11.7	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2411BL	LOT	BC2411BN	LOT	BC2411BH	
BC-5390 CRP	WBC $\times 10^9/L$	3.17	± 0.50	7.71	± 1.00	17.47	± 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$	1.63	± 0.29	4.46	± 0.70	11.65	± 1.75	
QC Mode	Lym# $\times 10^9/L$	1.21	± 0.29	2.34	± 0.62	3.32	± 1.40	
	Mon# $\times 10^9/L$	0.17	± 0.13	0.29	± 0.23	0.77	± 0.53	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.62	± 0.46	1.73	± 1.40	
	Bas# $\times 10^9/L$	0.82	± 0.32	2.11	± 0.77	5.43	± 1.75	
	Neu%	51.2	± 9.0	57.7	± 9.0	66.7	± 10.0	
	Lym%	38.2	± 9.0	30.4	± 8.0	19.0	± 8.0	
	Mon%	5.4	± 4.0	3.8	± 3.0	4.4	± 3.0	
	Eos%	5.2	± 4.0	8.1	± 6.0	9.9	± 8.0	
	Bas%	25.8	± 10.0	27.4	± 10.0	31.1	± 10.0	
	RBC $\times 10^{12}/L$	2.15	± 0.18	4.05	± 0.24	4.88	± 0.30	
	HGB g/L	56	± 4	118	± 6	155	± 8	
	HCT %	17.7	± 1.5	37.7	± 2.0	50.2	± 2.4	
	MCV fL	82.2	± 5.0	93.1	± 5.0	102.8	± 5.0	
	MCH pg	26.0	± 2.5	29.1	± 2.5	31.8	± 2.5	
	MCHC g/L	317	± 30	313	± 30	309	± 30	
	RDW-CV %	16.1	± 3.0	14.5	± 3.0	13.6	± 3.0	
	RDW-SD fL	46.7	± 8.0	48.1	± 8.0	49.6	± 8.0	
	PLT $\times 10^9/L$	45	± 20	245	± 40	486	± 60	
	MPV fL	10.6	± 3.0	10.0	± 3.0	9.6	± 3.0	
	PCT %*	0.048	± 0.048	0.245	± 0.100	0.467	± 0.200	
	PDW*	16.9	± 3.0	16.4	± 3.0	16.5	± 3.0	
	P-LCC $\times 10^9/L$	15	± 15	63	± 25	122	± 35	
	P-LCR %	33.2	± 10.0	25.7	± 10.0	25.2	± 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$	3.10	± 0.50	7.55	± 1.00	17.25	± 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$	1.61	± 0.28	4.45	± 0.68	11.82	± 1.56	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$	1.16	± 0.28	2.23	± 0.68	2.67	± 1.38	
	Mon# $\times 10^9/L$	0.16	± 0.13	0.23	± 0.20	1.38	± 1.21	
	Eos# $\times 10^9/L$	0.17	± 0.13	0.64	± 0.46	1.38	± 1.21	
	Bas# $\times 10^9/L$	1.80	± 0.31	4.98	± 0.76	13.54	± 1.73	
	Neu%	52.0	± 9.0	59.0	± 9.0	68.5	± 9.0	
	Lym%	37.5	± 9.0	29.5	± 9.0	15.5	± 8.0	
	Mon%	5.0	± 4.0	3.0	± 2.5	8.0	± 7.0	
	Eos%	5.5	± 4.0	8.5	± 6.0	8.0	± 7.0	
	Bas%	58.0	± 10.0	66.0	± 10.0	78.5	± 10.0	
	RBC $\times 10^{12}/L$	2.15	± 0.18	3.98	± 0.24	4.80	± 0.30	
	HGB g/L	56	± 4	119	± 6	154	± 8	
	HCT %	18.3	± 1.5	38.8	± 2.0	51.4	± 2.4	
	MCV fL	85.0	± 5.0	97.5	± 5.0	107.0	± 5.0	
	MCH pg	26.0	± 2.5	29.9	± 2.5	32.1	± 2.5	
	MCHC g/L	306	± 30	307	± 30	300	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.0	± 3.0	
	RDW-SD fL	59.5	± 8.0	62.0	± 8.0	63.5	± 8.0	
	PLT $\times 10^9/L$	45	± 20	233	± 40	464	± 60	
	MPV fL	10.2	± 3.0	9.8	± 3.0	9.2	± 3.0	
	PCT %*	0.046	± 0.046	0.223	± 0.100	0.423	± 0.200	
	PDW*	16.8	± 3.0	16.2	± 3.0	16.4	± 3.0	

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ASSAY VALUES AND EXPECTED RANGES

LOT



BC2411B

2025-01-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2411BL	LOT	BC2411BN	LOT	BC2411BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.15	± 0.50	7.61	± 1.00	16.94	± 2.50	
	Neu# $\times 10^9/L$	1.67	± 0.29	4.46	± 0.69	12.92	± 1.70	
	Lym# $\times 10^9/L$	1.14	± 0.29	2.26	± 0.69	2.34	± 1.53	
	Mon# $\times 10^9/L$	0.17	± 0.13	0.21	± 0.20	0.78	± 0.68	
	Eos# $\times 10^9/L$	0.17	± 0.13	0.68	± 0.53	0.90	± 0.85	
	Bas# $\times 10^9/L$	1.84	± 0.32	5.13	± 0.77	13.43	± 1.70	
	Neu%	52.8	± 9.0	58.6	± 9.0	76.3	± 10.0	
	Lym%	36.2	± 9.0	29.7	± 9.0	13.8	± 9.0	
	Mon%	5.5	± 4.0	2.7	± 2.5	4.6	± 4.0	
	Eos%	5.5	± 4.0	9.0	± 7.0	5.3	± 5.0	
	Bas%	58.4	± 10.0	67.4	± 10.0	79.3	± 10.0	
	RBC $\times 10^{12}/L$	2.17	± 0.18	4.03	± 0.24	4.84	± 0.30	
	HGB g/L	56	± 4	119	± 6	156	± 8	
	HCT %	18.2	± 1.5	38.4	± 2.0	50.8	± 2.4	
	MCV fL	83.9	± 5.0	95.2	± 5.0	104.9	± 5.0	
	MCH pg	25.8	± 2.5	29.5	± 2.5	32.2	± 2.5	
	MCHC g/L	308	± 30	310	± 30	307	± 30	
	RDW-CV %	16.0	± 3.0	14.4	± 3.0	13.6	± 3.0	
	RDW-SD fL	56.1	± 8.0	58.2	± 8.0	60.0	± 8.0	
	PLT $\times 10^9/L$	47	± 20	249	± 40	490	± 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL	9.6	± 3.0	9.5	± 3.0	9.0	± 3.0	
	PCT %*	0.045	± 0.045	0.237	± 0.100	0.441	± 0.200	
	PDW*	17.2	± 3.0	16.4	± 3.0	16.5	± 3.0	
	WBC $\times 10^9/L$	3.23	± 0.50	7.71	± 1.00	17.43	± 2.50	
	Neu# $\times 10^9/L$	1.58	± 0.39	4.37	± 0.93	11.78	± 2.10	
	Lym# $\times 10^9/L$	1.19	± 0.29	2.30	± 0.62	2.68	± 1.40	
	Mon# $\times 10^9/L$	0.29	± 0.29	0.39	± 0.39	1.25	± 1.25	
	Eos# $\times 10^9/L$	0.14	± 0.14	0.56	± 0.56	1.48	± 1.48	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.09	± 0.09	0.24	± 0.24	
	Neu%	48.9	± 12.0	56.6	± 12.0	67.5	± 12.0	
	Lym%	36.9	± 9.0	29.8	± 8.0	15.4	± 8.0	
	Mon%	9.1	± 9.1	5.1	± 5.1	7.2	± 7.2	
	Eos%	4.2	± 4.2	7.3	± 7.3	8.5	± 8.5	
	Bas%	0.9	± 0.9	1.2	± 1.2	1.4	± 1.4	
	RBC $\times 10^{12}/L$	2.18	± 0.18	4.11	± 0.24	4.95	± 0.30	
	HGB g/L	57	± 4	121	± 6	160	± 8	
	HCT %	18.2	± 1.5	38.4	± 2.0	50.3	± 2.4	
	MCV fL	83.7	± 5.0	93.5	± 5.0	101.6	± 5.0	
	MCH pg	26.1	± 2.5	29.4	± 2.5	32.3	± 2.5	
	MCHC g/L	312	± 30	315	± 30	318	± 30	
	RDW-CV %	19.2	± 3.0	17.0	± 3.0	15.7	± 3.0	
	RDW-SD fL	58.1	± 8.0	58.3	± 8.0	58.6	± 8.0	
	PLT $\times 10^9/L$	49	± 20	254	± 40	515	± 60	
	MPV fL	11.5	± 3.0	11.3	± 3.0	10.9	± 3.0	
	PCT %*	0.056	± 0.056	0.287	± 0.100	0.561	± 0.200	
	PDW*	16.5	± 3.0	16.3	± 3.0	16.6	± 3.0	
	P-LCC $\times 10^9/L$ **	19	± 15	86	± 25	170	± 35	
	P-LCR %**	39.4	± 10.0	34.0	± 10.0	33.1	± 10.0	

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

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BC-5D

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ASSAY VALUES AND EXPECTED RANGES

LOT**BC2411B****2025-01-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2411BL	LOT	BC2411BN	LOT	BC2411BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.10 \pm 0.50		7.55 \pm 1.00		17.25 \pm 2.50	
	Neu# $\times 10^9/L$		1.61 \pm 0.28		4.45 \pm 0.68		11.82 \pm 1.56	
	Lym# $\times 10^9/L$		1.16 \pm 0.28		2.23 \pm 0.68		2.67 \pm 1.38	
	Mon# $\times 10^9/L$		0.16 \pm 0.13		0.23 \pm 0.20		1.38 \pm 1.21	
	Eos# $\times 10^9/L$		0.17 \pm 0.13		0.64 \pm 0.46		1.38 \pm 1.21	
	Neu%		52.0 \pm 9.0		59.0 \pm 9.0		68.5 \pm 9.0	
	Lym%		37.5 \pm 9.0		29.5 \pm 9.0		15.5 \pm 8.0	
	Mon%		5.0 \pm 4.0		3.0 \pm 2.5		8.0 \pm 7.0	
	Eos%		5.5 \pm 4.0		8.5 \pm 6.0		8.0 \pm 7.0	
	RBC $\times 10^{12}/L$		2.15 \pm 0.18		3.98 \pm 0.24		4.80 \pm 0.30	
	HGB g/L		56 \pm 4		119 \pm 6		154 \pm 8	
	HCT %		18.3 \pm 1.5		38.8 \pm 2.0		51.4 \pm 2.4	
	MCV fL		85.0 \pm 5.0		97.5 \pm 5.0		107.0 \pm 5.0	
	MCH pg		26.0 \pm 2.5		29.9 \pm 2.5		32.1 \pm 2.5	
	MCHC g/L		306 \pm 30		307 \pm 30		300 \pm 30	
	RDW-CV %		15.5 \pm 3.0		14.0 \pm 3.0		13.0 \pm 3.0	
	RDW-SD fL		59.5 \pm 8.0		62.0 \pm 8.0		63.5 \pm 8.0	
	PLT $\times 10^9/L$		45 \pm 20		233 \pm 40		464 \pm 60	
	MPV fL		10.2 \pm 3.0		9.8 \pm 3.0		9.2 \pm 3.0	
	PCT %*		0.046 \pm 0.046		0.223 \pm 0.100		0.423 \pm 0.200	
	PDW*		16.8 \pm 3.0		16.2 \pm 3.0		16.4 \pm 3.0	

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