

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2501B



2025-03-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2501BL	LOT	BC2501BN	LOT	BC2501BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.40	± 0.50	8.26	± 1.00	17.73	± 2.50	
	Neu# $\times 10^9/L$	1.71	± 0.31	4.87	± 0.75	11.37	± 1.60	
	Lym# $\times 10^9/L$	1.32	± 0.31	2.26	± 0.66	3.35	± 1.42	
	Mon# $\times 10^9/L$	0.19	± 0.17	0.59	± 0.41	1.29	± 0.89	
	Eos# $\times 10^9/L$	0.15	± 0.11	0.46	± 0.33	1.54	± 1.07	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	50.1	± 9.0	58.8	± 9.0	64.1	± 9.0	
	Lym%	38.9	± 9.0	27.4	± 8.0	18.9	± 8.0	
	Mon%	5.6	± 5.0	7.2	± 5.0	7.3	± 5.0	
	Eos%	4.4	± 3.0	5.6	± 4.0	8.7	± 6.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.18	± 0.18	4.09	± 0.24	4.93	± 0.30	
	HGB g/L	58	± 4	128	± 6	166	± 8	
	HCT %	17.9	± 1.5	38.8	± 2.0	51.6	± 2.4	
	MCV fL	81.9	± 5.0	94.8	± 5.0	104.7	± 5.0	
	MCH pg	26.6	± 2.5	31.3	± 2.5	33.7	± 2.5	
	MCHC g/L	325	± 30	330	± 30	322	± 30	
	RDW-CV %	15.1	± 3.0	14.1	± 3.0	13.8	± 3.0	
	RDW-SD fL	44.5	± 10.0	49.7	± 10.0	53.5	± 10.0	
	PLT $\times 10^9/L$	49	± 20	247	± 40	500	± 60	
	MPV fL	7.2	± 3.0	7.7	± 3.0	7.8	± 3.0	
	PCT %*	0.035	± 0.035	0.190	± 0.100	0.390	± 0.200	
	PDW*	15.8	± 3.0	16.3	± 3.0	16.5	± 3.0	
	P-LCC $\times 10^9/L$	7	± 7	42	± 25	91	± 35	
	P-LCR %	13.7	± 10.0	17.0	± 10.0	18.2	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.20	± 0.50	8.05	± 1.00	17.10	± 2.50	
	Neu# $\times 10^9/L$	1.68	± 0.29	4.87	± 0.73	11.37	± 1.54	
	Lym# $\times 10^9/L$	1.25	± 0.29	2.17	± 0.73	2.99	± 1.37	
	Mon# $\times 10^9/L$	0.11	± 0.10	0.40	± 0.24	1.11	± 0.86	
	Eos# $\times 10^9/L$	0.16	± 0.13	0.60	± 0.48	1.62	± 1.37	
	Bas# $\times 10^9/L$	0.83	± 0.32	2.25	± 0.81	5.30	± 1.71	
	Neu%	52.5	± 9.0	60.5	± 9.0	66.5	± 9.0	
	Lym%	39.0	± 9.0	27.0	± 9.0	17.5	± 8.0	
	Mon%	3.5	± 3.0	5.0	± 3.0	6.5	± 5.0	
	Eos%	5.0	± 4.0	7.5	± 6.0	9.5	± 8.0	
	Bas%	26.0	± 10.0	28.0	± 10.0	31.0	± 10.0	
	RBC $\times 10^{12}/L$	2.11	± 0.18	4.05	± 0.24	4.91	± 0.30	
	HGB g/L	53	± 4	119	± 6	156	± 8	
	HCT %	17.0	± 1.5	37.5	± 2.0	49.8	± 2.4	
	MCV fL	80.5	± 5.0	92.5	± 5.0	101.5	± 5.0	
	MCH pg	25.1	± 2.5	29.4	± 2.5	31.8	± 2.5	
	MCHC g/L	312	± 30	318	± 30	313	± 30	
	RDW-CV %	14.5	± 3.0	14.0	± 3.0	14.0	± 3.0	
	RDW-SD fL	46.0	± 8.0	50.0	± 8.0	53.5	± 8.0	
	PLT $\times 10^9/L$	49	± 20	237	± 40	478	± 60	
	MPV fL	10.2	± 3.0	10.5	± 3.0	10.6	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2501BL	LOT	BC2501BN	LOT	BC2501BH	
BC-5390 CRP	WBC $\times 10^9/L$	3.22	± 0.50	8.11	± 1.00	17.19	± 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$	1.69	± 0.29	4.88	± 0.73	11.31	± 1.55	
QC Mode	Lym# $\times 10^9/L$	1.21	± 0.29	2.18	± 0.65	3.13	± 1.38	
	Mon# $\times 10^9/L$	0.15	± 0.10	0.46	± 0.33	1.07	± 0.87	
	Eos# $\times 10^9/L$	0.17	± 0.13	0.59	± 0.49	1.68	± 1.38	
	Bas# $\times 10^9/L$	0.85	± 0.33	2.28	± 0.82	5.35	± 1.72	
	Neu%	52.5	± 9.0	60.1	± 9.0	65.8	± 9.0	
	Lym%	37.6	± 9.0	26.9	± 8.0	18.2	± 8.0	
	Mon%	4.6	± 3.0	5.7	± 4.0	6.2	± 5.0	
	Eos%	5.3	± 4.0	7.3	± 6.0	9.8	± 8.0	
	Bas%	26.4	± 10.0	28.1	± 10.0	31.1	± 10.0	
	RBC $\times 10^{12}/L$	2.12	± 0.18	4.05	± 0.24	4.88	± 0.30	
	HGB g/L	54	± 4	119	± 6	155	± 8	
	HCT %	17.0	± 1.5	37.9	± 2.0	50.5	± 2.4	
	MCV fL	80.3	± 5.0	93.5	± 5.0	103.4	± 5.0	
	MCH pg	25.5	± 2.5	29.4	± 2.5	31.8	± 2.5	
	MCHC g/L	317	± 30	314	± 30	307	± 30	
	RDW-CV %	15.5	± 3.0	14.6	± 3.0	14.1	± 3.0	
	RDW-SD fL	43.8	± 8.0	48.6	± 8.0	52.1	± 8.0	
	PLT $\times 10^9/L$	42	± 20	231	± 40	472	± 60	
	MPV fL	8.1	± 3.0	8.5	± 3.0	8.4	± 3.0	
	PCT %*	0.034	± 0.034	0.196	± 0.100	0.396	± 0.200	
	PDW*	15.5	± 3.0	16.3	± 3.0	16.6	± 3.0	
	P-LCC $\times 10^9/L$	6	± 6	40	± 25	87	± 35	
	P-LCR %	14.9	± 10.0	17.1	± 10.0	18.4	± 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$	3.20	± 0.50	8.05	± 1.00	17.25	± 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$	1.73	± 0.32	5.03	± 0.81	11.90	± 1.73	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$	1.15	± 0.29	2.09	± 0.73	3.02	± 1.56	
	Mon# $\times 10^9/L$	0.14	± 0.13	0.32	± 0.24	0.60	± 0.52	
	Eos# $\times 10^9/L$	0.18	± 0.17	0.60	± 0.56	1.73	± 1.39	
	Bas# $\times 10^9/L$	1.94	± 0.32	5.64	± 0.81	13.71	± 1.73	
	Neu%	54.0	± 10.0	62.5	± 10.0	69.0	± 10.0	
	Lym%	36.0	± 9.0	26.0	± 9.0	17.5	± 9.0	
	Mon%	4.5	± 4.0	4.0	± 3.0	3.5	± 3.0	
	Eos%	5.5	± 5.0	7.5	± 7.0	10.0	± 8.0	
	Bas%	60.5	± 10.0	70.0	± 10.0	79.5	± 10.0	
	RBC $\times 10^{12}/L$	2.12	± 0.18	4.04	± 0.24	4.87	± 0.30	
	HGB g/L	54	± 4	119	± 6	155	± 8	
	HCT %	17.6	± 1.5	39.0	± 2.0	51.6	± 2.4	
	MCV fL	83.0	± 5.0	96.5	± 5.0	106.0	± 5.0	
	MCH pg	25.5	± 2.5	29.5	± 2.5	31.8	± 2.5	
	MCHC g/L	307	± 30	305	± 30	300	± 30	
	RDW-CV %	15.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	56.0	± 8.0	61.0	± 8.0	65.5	± 8.0	
	PLT $\times 10^9/L$	44	± 20	226	± 40	462	± 60	
	MPV fL	8.5	± 3.0	8.2	± 3.0	8.1	± 3.0	
	PCT %*	0.036	± 0.036	0.189	± 0.100	0.378	± 0.200	
	PDW*	15.8	± 3.0	16.5	± 3.0	16.7	± 3.0	

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ASSAY VALUES AND EXPECTED RANGES

LOT



BC2501B

2025-03-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2501BL	LOT	BC2501BN	LOT	BC2501BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.21	± 0.50	8.02	± 1.00	16.97	± 2.50	
	Neu# $\times 10^9/L$	1.79	± 0.29	5.04	± 0.73	11.92	± 1.53	
	Lym# $\times 10^9/L$	1.12	± 0.29	2.09	± 0.73	2.88	± 1.36	
	Mon# $\times 10^9/L$	0.15	± 0.13	0.26	± 0.24	0.51	± 0.51	
	Eos# $\times 10^9/L$	0.15	± 0.13	0.63	± 0.48	1.66	± 1.36	
	Bas# $\times 10^9/L$	1.93	± 0.33	5.57	± 0.81	13.53	± 1.70	
	Neu%	55.5	± 9.0	62.8	± 9.0	70.2	± 9.0	
	Lym%	34.9	± 9.0	26.0	± 9.0	17.0	± 8.0	
	Mon%	4.8	± 4.0	3.3	± 3.0	3.0	± 3.0	
	Eos%	4.8	± 4.0	7.9	± 6.0	9.8	± 8.0	
	Bas%	60.1	± 10.0	69.4	± 10.0	79.7	± 10.0	
	RBC $\times 10^{12}/L$	2.15	± 0.18	4.05	± 0.24	4.89	± 0.30	
	HGB g/L	55	± 4	119	± 6	156	± 8	
	HCT %	17.7	± 1.5	38.7	± 2.0	51.4	± 2.4	
	MCV fL	82.4	± 5.0	95.5	± 5.0	105.2	± 5.0	
	MCH pg	25.6	± 2.5	29.4	± 2.5	31.9	± 2.5	
	MCHC g/L	310	± 30	308	± 30	303	± 30	
	RDW-CV %	15.2	± 3.0	14.3	± 3.0	14.1	± 3.0	
	RDW-SD fL	53.1	± 8.0	58.3	± 8.0	62.8	± 8.0	
	PLT $\times 10^9/L$	46	± 20	236	± 40	480	± 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL	7.7	± 3.0	8.0	± 3.0	8.0	± 3.0	
	PCT %*	0.035	± 0.035	0.189	± 0.100	0.384	± 0.200	
	PDW*	15.8	± 3.0	16.4	± 3.0	16.6	± 3.0	
	WBC $\times 10^9/L$	3.29	± 0.50	8.18	± 1.00	17.33	± 2.50	
	Neu# $\times 10^9/L$	1.69	± 0.40	4.86	± 0.98	11.45	± 2.08	
	Lym# $\times 10^9/L$	1.12	± 0.30	2.13	± 0.66	2.89	± 1.39	
	Mon# $\times 10^9/L$	0.29	± 0.29	0.55	± 0.55	1.06	± 1.06	
	Eos# $\times 10^9/L$	0.16	± 0.16	0.55	± 0.55	1.65	± 1.65	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.09	± 0.09	0.28	± 0.28	
	Neu%	51.3	± 12.0	59.5	± 12.0	66.1	± 12.0	
	Lym%	34.1	± 9.0	26.0	± 8.0	16.7	± 8.0	
	Mon%	8.7	± 8.7	6.7	± 6.7	6.1	± 6.1	
	Eos%	4.9	± 4.9	6.7	± 6.7	9.5	± 9.5	
	Bas%	1.0	± 1.0	1.1	± 1.1	1.6	± 1.6	
	RBC $\times 10^{12}/L$	2.16	± 0.18	4.14	± 0.24	5.02	± 0.30	
	HGB g/L	55	± 4	120	± 6	160	± 8	
	HCT %	17.6	± 1.5	38.5	± 2.0	51.0	± 2.4	
	MCV fL	81.7	± 5.0	93.1	± 5.0	101.5	± 5.0	
	MCH pg	25.5	± 2.5	29.0	± 2.5	31.9	± 2.5	
	MCHC g/L	312	± 30	311	± 30	314	± 30	
	RDW-CV %	18.5	± 3.0	17.0	± 3.0	16.2	± 3.0	
	RDW-SD fL	54.8	± 8.0	58.1	± 8.0	60.4	± 8.0	
	PLT $\times 10^9/L$	49	± 20	242	± 40	511	± 60	
	MPV fL	9.5	± 3.0	9.5	± 3.0	9.4	± 3.0	
	PCT %*	0.047	± 0.047	0.230	± 0.100	0.480	± 0.200	
	PDW*	15.5	± 3.0	16.4	± 3.0	16.8	± 3.0	
	P-LCC $\times 10^9/L$ **	12	± 12	59	± 25	123	± 35	
	P-LCR %**	24.2	± 10.0	24.3	± 10.0	24.0	± 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**BC2501B****2025-03-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2501BL	LOT	BC2501BN	LOT	BC2501BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.20 \pm 0.50		8.05 \pm 1.00		17.25 \pm 2.50	
	Neu# $\times 10^9/L$		1.73 \pm 0.32		5.03 \pm 0.81		11.90 \pm 1.73	
	Lym# $\times 10^9/L$		1.15 \pm 0.29		2.09 \pm 0.73		3.02 \pm 1.56	
	Mon# $\times 10^9/L$		0.14 \pm 0.13		0.32 \pm 0.24		0.60 \pm 0.52	
	Eos# $\times 10^9/L$		0.18 \pm 0.17		0.60 \pm 0.56		1.73 \pm 1.39	
	Neu%		54.0 \pm 10.0		62.5 \pm 10.0		69.0 \pm 10.0	
	Lym%		36.0 \pm 9.0		26.0 \pm 9.0		17.5 \pm 9.0	
	Mon%		4.5 \pm 4.0		4.0 \pm 3.0		3.5 \pm 3.0	
	Eos%		5.5 \pm 5.0		7.5 \pm 7.0		10.0 \pm 8.0	
	RBC $\times 10^{12}/L$		2.12 \pm 0.18		4.04 \pm 0.24		4.87 \pm 0.30	
	HGB g/L		54 \pm 4		119 \pm 6		155 \pm 8	
	HCT %		17.6 \pm 1.5		39.0 \pm 2.0		51.6 \pm 2.4	
	MCV fL		83.0 \pm 5.0		96.5 \pm 5.0		106.0 \pm 5.0	
	MCH pg		25.5 \pm 2.5		29.5 \pm 2.5		31.8 \pm 2.5	
	MCHC g/L		307 \pm 30		305 \pm 30		300 \pm 30	
	RDW-CV %		15.0 \pm 3.0		14.0 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		56.0 \pm 8.0		61.0 \pm 8.0		65.5 \pm 8.0	
	PLT $\times 10^9/L$		44 \pm 20		226 \pm 40		462 \pm 60	
	MPV fL		8.5 \pm 3.0		8.2 \pm 3.0		8.1 \pm 3.0	
	PCT %*		0.036 \pm 0.036		0.189 \pm 0.100		0.378 \pm 0.200	
	PDW*		15.8 \pm 3.0		16.5 \pm 3.0		16.7 \pm 3.0	

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