

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2401B



2024-03-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2401BL	LOT	BC2401BN	LOT	BC2401BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.51	± 0.50	8.15	± 1.00	17.85	± 2.50	
	Neu# $\times 10^9/L$	1.71	± 0.32	4.51	± 0.74	11.34	± 1.61	
	Lym# $\times 10^9/L$	1.39	± 0.32	2.45	± 0.66	3.53	± 1.43	
	Mon# $\times 10^9/L$	0.21	± 0.18	0.59	± 0.41	1.18	± 0.90	
	Eos# $\times 10^9/L$	0.16	± 0.11	0.52	± 0.41	1.62	± 1.25	
	Bas# $\times 10^9/L$	0.04	± 0.04	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.7	± 9.0	55.3	± 9.0	63.5	± 9.0	
	Lym%	39.7	± 9.0	30.0	± 8.0	19.8	± 8.0	
	Mon%	6.1	± 5.0	7.3	± 5.0	6.6	± 5.0	
	Eos%	4.5	± 3.0	6.4	± 5.0	9.1	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.18	± 0.18	4.08	± 0.24	4.79	± 0.30	
	HGB g/L	60	± 4	128	± 6	163	± 8	
	HCT %	18.2	± 1.5	38.7	± 2.0	50.4	± 2.4	
	MCV fL	83.5	± 5.0	94.9	± 5.0	105.3	± 5.0	
	MCH pg	27.5	± 2.5	31.4	± 2.5	34.0	± 2.5	
	MCHC g/L	330	± 30	331	± 30	323	± 30	
	RDW-CV %	16.5	± 3.0	14.1	± 3.0	13.8	± 3.0	
	RDW-SD fL	48.9	± 10.0	49.6	± 10.0	52.8	± 10.0	
	PLT $\times 10^9/L$	54	± 20	274	± 40	492	± 60	
	MPV fL	11.0	± 3.0	9.2	± 3.0	10.5	± 3.0	
	PCT %*	0.059	± 0.059	0.252	± 0.100	0.517	± 0.200	
	PDW*	15.9	± 3.0	16.3	± 3.0	15.7	± 3.0	
	P-LCC $\times 10^9/L$	26	± 15	74	± 25	186	± 35	
	P-LCR %	47.6	± 10.0	27.1	± 10.0	37.9	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.25	± 0.50	8.00	± 1.00	17.30	± 2.50	
	Neu# $\times 10^9/L$	1.67	± 0.30	4.60	± 0.72	11.50	± 1.56	
	Lym# $\times 10^9/L$	1.22	± 0.30	2.28	± 0.72	3.11	± 1.39	
	Mon# $\times 10^9/L$	0.18	± 0.13	0.52	± 0.40	1.04	± 0.87	
	Eos# $\times 10^9/L$	0.18	± 0.13	0.60	± 0.48	1.64	± 1.39	
	Bas# $\times 10^9/L$	0.86	± 0.33	2.20	± 0.80	5.28	± 1.74	
	Neu%	51.5	± 9.0	57.5	± 9.0	66.5	± 9.0	
	Lym%	37.5	± 9.0	28.5	± 9.0	18.0	± 8.0	
	Mon%	5.5	± 4.0	6.5	± 5.0	6.0	± 5.0	
	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 $\times 10^{12}/L$	2.10	± 0.18	4.04	± 0.24	4.77	± 0.30	
	HGB g/L	55	± 4	118	± 6	152	± 8	
	HCT %	17.5	± 1.5	37.4	± 2.0	48.7	± 2.4	
	MCV fL	83.5	± 5.0	92.5	± 5.0	102.0	± 5.0	
	MCH pg	26.2	± 2.5	29.2	± 2.5	31.9	± 2.5	
	MCHC g/L	314	± 30	316	± 30	312	± 30	
	RDW-CV %	16.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	50.5	± 8.0	50.0	± 8.0	52.5	± 8.0	
	PLT $\times 10^9/L$	56	± 20	271	± 40	494	± 60	
	MPV fL	14.4	± 3.0	12.1	± 3.0	13.2	± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2401BL	LOT	BC2401BN	LOT	BC2401BH	
BC-5390 CRP	WBC $\times 10^9/L$	3.33	± 0.50	8.06	± 1.00	17.13	± 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$	1.71	± 0.30	4.65	± 0.73	11.25	± 1.55	
QC Mode	Lym# $\times 10^9/L$	1.25	± 0.30	2.35	± 0.65	3.22	± 1.37	
	Mon# $\times 10^9/L$	0.18	± 0.14	0.46	± 0.41	0.91	± 0.69	
	Eos# $\times 10^9/L$	0.19	± 0.14	0.60	± 0.48	1.75	± 1.38	
	Bas# $\times 10^9/L$	0.91	± 0.34	2.26	± 0.81	5.31	± 1.72	
	Neu%	51.5	± 9.0	57.7	± 9.0	65.7	± 9.0	
	Lym%	37.5	± 9.0	29.1	± 8.0	18.8	± 8.0	
	Mon%	5.4	± 4.0	5.7	± 5.0	5.3	± 4.0	
	Eos%	5.6	± 4.0	7.5	± 6.0	10.2	± 8.0	
	Bas%	27.2	± 10.0	28.0	± 10.0	31.0	± 10.0	
	RBC $\times 10^{12}/L$	2.12	± 0.18	4.05	± 0.24	4.76	± 0.30	
	HGB g/L	55	± 4	119	± 6	153	± 8	
	HCT %	17.2	± 1.5	37.7	± 2.0	49.2	± 2.4	
	MCV fL	81.1	± 5.0	93.1	± 5.0	103.4	± 5.0	
	MCH pg	25.9	± 2.5	29.4	± 2.5	32.1	± 2.5	
	MCHC g/L	320	± 30	316	± 30	311	± 30	
	RDW-CV %	16.7	± 3.0	14.7	± 3.0	14.1	± 3.0	
	RDW-SD fL	48.2	± 8.0	48.4	± 8.0	51.8	± 8.0	
	PLT $\times 10^9/L$	49	± 20	265	± 40	489	± 60	
	MPV fL	12.4	± 3.0	10.0	± 3.0	11.2	± 3.0	
	PCT %*	0.061	± 0.061	0.265	± 0.100	0.548	± 0.200	
	PDW*	15.1	± 3.0	16.3	± 3.0	15.8	± 3.0	
	P-LCC $\times 10^9/L$	24	± 15	70	± 25	173	± 35	
	P-LCR %	48.8	± 10.0	26.4	± 10.0	35.3	± 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$	3.30	± 0.50	7.90	± 1.00	17.30	± 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$	1.72	± 0.30	4.74	± 0.72	11.68	± 1.56	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$	1.25	± 0.30	2.25	± 0.71	3.37	± 1.39	
	Mon# $\times 10^9/L$	0.12	± 0.11	0.32	± 0.28	0.52	± 0.44	
	Eos# $\times 10^9/L$	0.21	± 0.20	0.59	± 0.48	1.73	± 1.39	
	Bas# $\times 10^9/L$	2.06	± 0.33	5.45	± 0.79	13.41	± 1.73	
	Neu%	52.0	± 9.0	60.0	± 9.0	67.5	± 9.0	
	Lym%	38.0	± 9.0	28.5	± 9.0	19.5	± 8.0	
	Mon%	3.5	± 3.0	4.0	± 3.5	3.0	± 2.5	
	Eos%	6.5	± 6.0	7.5	± 6.0	10.0	± 8.0	
	Bas%	62.5	± 10.0	69.0	± 10.0	77.5	± 10.0	
	RBC $\times 10^{12}/L$	2.13	± 0.18	4.00	± 0.24	4.71	± 0.30	
	HGB g/L	56	± 4	118	± 6	152	± 8	
	HCT %	18.1	± 1.5	38.6	± 2.0	50.4	± 2.4	
	MCV fL	85.0	± 5.0	96.5	± 5.0	107.0	± 5.0	
	MCH pg	26.3	± 2.5	29.5	± 2.5	32.3	± 2.5	
	MCHC g/L	309	± 30	306	± 30	302	± 30	
	RDW-CV %	16.5	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	62.0	± 8.0	61.5	± 8.0	65.0	± 8.0	
	PLT $\times 10^9/L$	50	± 20	257	± 40	463	± 60	
	MPV fL	12.1	± 3.0	9.6	± 3.0	11.7	± 3.0	
	PCT %*	0.061	± 0.061	0.246	± 0.100	0.450	± 0.200	
	PDW*	15.5	± 3.0	16.3	± 3.0	15.7	± 3.0	

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LOT

BC2401B



2024-03-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2401BL	LOT	BC2401BN	LOT	BC2401BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.29	± 0.50	7.93	± 1.00	16.99	± 2.50	
	Neu# $\times 10^9/L$	1.73	± 0.30	4.77	± 0.72	11.57	± 1.53	
	Lym# $\times 10^9/L$	1.24	± 0.30	2.28	± 0.72	3.16	± 1.36	
	Mon# $\times 10^9/L$	0.12	± 0.11	0.29	± 0.24	0.49	± 0.49	
	Eos# $\times 10^9/L$	0.20	± 0.17	0.59	± 0.48	1.77	± 1.37	
	Bas# $\times 10^9/L$	2.05	± 0.33	5.52	± 0.80	13.29	± 1.70	
	Neu%	52.8	± 9.0	60.2	± 9.0	68.1	± 9.0	
	Lym%	37.7	± 9.0	28.7	± 9.0	18.6	± 8.0	
	Mon%	3.5	± 3.0	3.7	± 3.0	2.9	± 2.9	
	Eos%	6.0	± 5.0	7.4	± 6.0	10.4	± 8.0	
	Bas%	62.4	± 10.0	69.6	± 10.0	78.2	± 10.0	
	RBC $\times 10^{12}/L$	2.14	± 0.18	4.04	± 0.24	4.73	± 0.30	
	HGB g/L	56	± 4	119	± 6	153	± 8	
	HCT %	17.9	± 1.5	38.4	± 2.0	49.8	± 2.4	
	MCV fL	83.7	± 5.0	95.1	± 5.0	105.3	± 5.0	
	MCH pg	26.2	± 2.5	29.5	± 2.5	32.3	± 2.5	
	MCHC g/L	313	± 30	310	± 30	307	± 30	
	RDW-CV %	16.6	± 3.0	14.6	± 3.0	14.0	± 3.0	
	RDW-SD fL	57.9	± 8.0	58.0	± 8.0	61.4	± 8.0	
	PLT $\times 10^9/L$	50	± 20	268	± 40	485	± 60	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	MPV fL	11.7	± 3.0	9.4	± 3.0	10.5	± 3.0	
	PCT %*	0.059	± 0.059	0.252	± 0.100	0.509	± 0.200	
	PDW*	15.3	± 3.0	16.4	± 3.0	15.8	± 3.0	
	WBC $\times 10^9/L$	3.42	± 0.50	8.07	± 1.00	17.39	± 2.50	
	Neu# $\times 10^9/L$	1.65	± 0.41	4.43	± 0.97	11.24	± 2.09	
	Lym# $\times 10^9/L$	1.29	± 0.31	2.28	± 0.65	3.10	± 1.22	
	Mon# $\times 10^9/L$	0.24	± 0.24	0.66	± 0.66	1.20	± 1.20	
	Eos# $\times 10^9/L$	0.21	± 0.21	0.60	± 0.60	1.57	± 1.57	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.10	± 0.10	0.28	± 0.28	
	Neu%	48.4	± 12.0	54.9	± 12.0	64.7	± 12.0	
	Lym%	37.6	± 9.0	28.3	± 8.0	17.8	± 7.0	
	Mon%	6.9	± 6.9	8.2	± 8.2	6.9	± 6.9	
	Eos%	6.1	± 6.1	7.4	± 7.4	9.0	± 9.0	
	Bas%	1.0	± 1.0	1.2	± 1.2	1.6	± 1.6	
	RBC $\times 10^{12}/L$	2.15	± 0.18	4.10	± 0.24	4.82	± 0.30	
	HGB g/L	56	± 4	120	± 6	155	± 8	
	HCT %	17.8	± 1.5	38.1	± 2.0	48.9	± 2.4	
	MCV fL	82.7	± 5.0	92.9	± 5.0	101.5	± 5.0	
	MCH pg	26.0	± 2.5	29.3	± 2.5	32.2	± 2.5	
	MCHC g/L	315	± 30	315	± 30	317	± 30	
	RDW-CV %	19.9	± 3.0	16.9	± 3.0	16.2	± 3.0	
	RDW-SD fL	60.6	± 8.0	58.3	± 8.0	60.7	± 8.0	
	PLT $\times 10^9/L$	54	± 20	275	± 40	499	± 60	
	MPV fL	14.3	± 3.0	11.4	± 3.0	12.8	± 3.0	
	PCT %*	0.077	± 0.077	0.314	± 0.100	0.639	± 0.200	
	PDW*	15.1	± 3.0	16.4	± 3.0	16.0	± 3.0	
	P-LCC $\times 10^9/L$ **	32	± 15	98	± 25	226	± 35	
	P-LCR %**	59.2	± 10.0	35.6	± 10.0	45.3	± 10.0	

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

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LOT



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2024-03-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2401BL	LOT	BC2401BN	LOT	BC2401BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.30 \pm 0.50		7.90 \pm 1.00		17.30 \pm 2.50	
	Neu# $\times 10^9/L$		1.72 \pm 0.30		4.74 \pm 0.72		11.68 \pm 1.56	
	Lym# $\times 10^9/L$		1.25 \pm 0.30		2.25 \pm 0.71		3.37 \pm 1.39	
	Mon# $\times 10^9/L$		0.12 \pm 0.11		0.32 \pm 0.28		0.52 \pm 0.44	
	Eos# $\times 10^9/L$		0.21 \pm 0.20		0.59 \pm 0.48		1.73 \pm 1.39	
	Neu%		52.0 \pm 9.0		60.0 \pm 9.0		67.5 \pm 9.0	
	Lym%		38.0 \pm 9.0		28.5 \pm 9.0		19.5 \pm 8.0	
	Mon%		3.5 \pm 3.0		4.0 \pm 3.5		3.0 \pm 2.5	
	Eos%		6.5 \pm 6.0		7.5 \pm 6.0		10.0 \pm 8.0	
	RBC $\times 10^{12}/L$		2.13 \pm 0.18		4.00 \pm 0.24		4.71 \pm 0.30	
	HGB g/L		56 \pm 4		118 \pm 6		152 \pm 8	
	HCT %		18.1 \pm 1.5		38.6 \pm 2.0		50.4 \pm 2.4	
	MCV fL		85.0 \pm 5.0		96.5 \pm 5.0		107.0 \pm 5.0	
	MCH pg		26.3 \pm 2.5		29.5 \pm 2.5		32.3 \pm 2.5	
	MCHC g/L		309 \pm 30		306 \pm 30		302 \pm 30	
	RDW-CV %		16.5 \pm 3.0		14.0 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		62.0 \pm 8.0		61.5 \pm 8.0		65.0 \pm 8.0	
	PLT $\times 10^9/L$		50 \pm 20		257 \pm 40		463 \pm 60	
	MPV fL		12.1 \pm 3.0		9.6 \pm 3.0		11.7 \pm 3.0	
	PCT %*		0.061 \pm 0.061		0.246 \pm 0.100		0.450 \pm 0.200	
	PDW*		15.5 \pm 3.0		16.3 \pm 3.0		15.7 \pm 3.0	

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