

# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2601B



2026-03-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2601BL	LOT	BC2601BN	LOT	BC2601BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$		3.44 $\pm$ 0.50		7.97 $\pm$ 1.00		17.34 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.75 $\pm$ 0.31		4.46 $\pm$ 0.72		11.00 $\pm$ 1.57	
	Lym# $\times 10^9/L$		1.37 $\pm$ 0.31		2.37 $\pm$ 0.64		4.07 $\pm$ 1.39	
	Mon# $\times 10^9/L$		0.15 $\pm$ 0.14		0.54 $\pm$ 0.40		0.83 $\pm$ 0.78	
	Eos# $\times 10^9/L$		0.14 $\pm$ 0.11		0.52 $\pm$ 0.40		1.27 $\pm$ 1.05	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.08 $\pm$ 0.08		0.17 $\pm$ 0.17	
	Neu%		50.8 $\pm$ 9.0		56.0 $\pm$ 9.0		63.4 $\pm$ 9.0	
	Lym%		39.9 $\pm$ 9.0		29.7 $\pm$ 8.0		23.5 $\pm$ 8.0	
	Mon%		4.3 $\pm$ 4.0		6.8 $\pm$ 5.0		4.8 $\pm$ 4.5	
	Eos%		4.0 $\pm$ 3.0		6.5 $\pm$ 5.0		7.3 $\pm$ 6.0	
	Bas%		1.0 $\pm$ 1.0		1.0 $\pm$ 1.0		1.0 $\pm$ 1.0	
	RBC $\times 10^{12}/L$		2.23 $\pm$ 0.18		4.09 $\pm$ 0.24		4.89 $\pm$ 0.30	
	HGB g/L		61 $\pm$ 4		127 $\pm$ 6		163 $\pm$ 8	
	HCT %		18.7 $\pm$ 1.5		38.7 $\pm$ 2.0		50.5 $\pm$ 2.4	
	MCV fL		83.7 $\pm$ 5.0		94.5 $\pm$ 5.0		103.2 $\pm$ 5.0	
	MCH pg		27.4 $\pm$ 2.5		31.1 $\pm$ 2.5		33.3 $\pm$ 2.5	
	MCHC g/L		327 $\pm$ 30		329 $\pm$ 30		323 $\pm$ 30	
	RDW-CV %		16.6 $\pm$ 3.0		14.5 $\pm$ 3.0		14.1 $\pm$ 3.0	
	RDW-SD fL		49.3 $\pm$ 10.0		49.8 $\pm$ 10.0		52.3 $\pm$ 10.0	
	PLT $\times 10^9/L$		51 $\pm$ 20		257 $\pm$ 40		507 $\pm$ 60	
	MPV fL		9.9 $\pm$ 3.0		8.9 $\pm$ 3.0		8.9 $\pm$ 3.0	
	PCT %*		0.050 $\pm$ 0.050		0.229 $\pm$ 0.100		0.451 $\pm$ 0.200	
	PDW*		15.9 $\pm$ 3.0		16.2 $\pm$ 3.0		15.7 $\pm$ 3.0	
	P-LCC $\times 10^9/L$		19 $\pm$ 19		62 $\pm$ 25		119 $\pm$ 35	
	P-LCR %		37.9 $\pm$ 10.0		24.1 $\pm$ 10.0		23.5 $\pm$ 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$		3.30 $\pm$ 0.50		7.95 $\pm$ 1.00		16.80 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.78 $\pm$ 0.30		4.57 $\pm$ 0.72		11.09 $\pm$ 1.52	
	Lym# $\times 10^9/L$		1.14 $\pm$ 0.30		2.31 $\pm$ 0.72		3.19 $\pm$ 1.35	
	Mon# $\times 10^9/L$		0.20 $\pm$ 0.17		0.48 $\pm$ 0.40		0.92 $\pm$ 0.67	
	Eos# $\times 10^9/L$		0.18 $\pm$ 0.17		0.60 $\pm$ 0.48		1.60 $\pm$ 1.35	
	Bas# $\times 10^9/L$		0.81 $\pm$ 0.33		2.11 $\pm$ 0.80		5.12 $\pm$ 1.68	
	Neu%		54.0 $\pm$ 9.0		57.5 $\pm$ 9.0		66.0 $\pm$ 9.0	
	Lym%		34.5 $\pm$ 9.0		29.0 $\pm$ 9.0		19.0 $\pm$ 8.0	
	Mon%		6.0 $\pm$ 5.0		6.0 $\pm$ 5.0		5.5 $\pm$ 4.0	
	Eos%		5.5 $\pm$ 5.0		7.5 $\pm$ 6.0		9.5 $\pm$ 8.0	
	Bas%		24.5 $\pm$ 10.0		26.5 $\pm$ 10.0		30.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.16 $\pm$ 0.18		4.05 $\pm$ 0.24		4.87 $\pm$ 0.30	
	HGB g/L		55 $\pm$ 4		118 $\pm$ 6		152 $\pm$ 8	
	HCT %		17.7 $\pm$ 1.5		37.5 $\pm$ 2.0		48.9 $\pm$ 2.4	
	MCV fL		82.0 $\pm$ 5.0		92.5 $\pm$ 5.0		100.5 $\pm$ 5.0	
	MCH pg		25.5 $\pm$ 2.5		29.1 $\pm$ 2.5		31.2 $\pm$ 2.5	
	MCHC g/L		311 $\pm$ 30		315 $\pm$ 30		311 $\pm$ 30	
	RDW-CV %		16.5 $\pm$ 3.0		14.5 $\pm$ 3.0		14.0 $\pm$ 3.0	
	RDW-SD fL		50.0 $\pm$ 8.0		49.0 $\pm$ 8.0		50.5 $\pm$ 8.0	
	PLT $\times 10^9/L$		53 $\pm$ 20		258 $\pm$ 40		512 $\pm$ 60	
	MPV fL		13.3 $\pm$ 3.0		11.8 $\pm$ 3.0		11.5 $\pm$ 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES


**BC2601B**  
**2026-03-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2601BL	LOT	BC2601BN	LOT	BC2601BH	
<b>BC-5390 CRP</b>	WBC $\times 10^9/L$		3.30 $\pm$ 0.50		7.90 $\pm$ 1.00		16.84 $\pm$ 2.50	
<b>BC-5310 CRP</b>	Neu# $\times 10^9/L$		1.78 $\pm$ 0.30		4.56 $\pm$ 0.72		11.06 $\pm$ 1.52	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.16 $\pm$ 0.30		2.33 $\pm$ 0.64		3.20 $\pm$ 1.35	
	Mon# $\times 10^9/L$		0.19 $\pm$ 0.14		0.41 $\pm$ 0.32		0.96 $\pm$ 0.68	
	Eos# $\times 10^9/L$		0.17 $\pm$ 0.14		0.60 $\pm$ 0.48		1.62 $\pm$ 1.35	
	Bas# $\times 10^9/L$		0.82 $\pm$ 0.34		2.15 $\pm$ 0.79		5.14 $\pm$ 1.69	
	Neu%		53.9 $\pm$ 9.0		57.7 $\pm$ 9.0		65.7 $\pm$ 9.0	
	Lym%		35.3 $\pm$ 9.0		29.5 $\pm$ 8.0		19.0 $\pm$ 8.0	
	Mon%		5.8 $\pm$ 4.0		5.2 $\pm$ 4.0		5.7 $\pm$ 4.0	
	Eos%		5.0 $\pm$ 4.0		7.6 $\pm$ 6.0		9.6 $\pm$ 8.0	
	Bas%		24.7 $\pm$ 10.0		27.2 $\pm$ 10.0		30.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.17 $\pm$ 0.18		4.05 $\pm$ 0.24		4.85 $\pm$ 0.30	
	HGB g/L		56 $\pm$ 4		119 $\pm$ 6		154 $\pm$ 8	
	HCT %		17.7 $\pm$ 1.5		37.8 $\pm$ 2.0		49.4 $\pm$ 2.4	
	MCV fL		81.4 $\pm$ 5.0		93.3 $\pm$ 5.0		101.9 $\pm$ 5.0	
	MCH pg		25.8 $\pm$ 2.5		29.4 $\pm$ 2.5		31.8 $\pm$ 2.5	
	MCHC g/L		317 $\pm$ 30		315 $\pm$ 30		312 $\pm$ 30	
	RDW-CV %		17.1 $\pm$ 3.0		15.1 $\pm$ 3.0		14.4 $\pm$ 3.0	
	RDW-SD fL		48.5 $\pm$ 8.0		48.5 $\pm$ 8.0		50.9 $\pm$ 8.0	
	PLT $\times 10^9/L$		46 $\pm$ 20		251 $\pm$ 40		502 $\pm$ 60	
	MPV fL		11.4 $\pm$ 3.0		9.7 $\pm$ 3.0		9.5 $\pm$ 3.0	
	PCT %*		0.052 $\pm$ 0.052		0.243 $\pm$ 0.100		0.477 $\pm$ 0.200	
	PDW*		15.3 $\pm$ 3.0		16.3 $\pm$ 3.0		15.9 $\pm$ 3.0	
	P-LCC $\times 10^9/L$		18 $\pm$ 18		59 $\pm$ 25		113 $\pm$ 35	
	P-LCR %		38.7 $\pm$ 10.0		23.7 $\pm$ 10.0		22.6 $\pm$ 10.0	
<b>BC-5300, BC-5100</b>	WBC $\times 10^9/L$		3.30 $\pm$ 0.50		7.70 $\pm$ 1.00		16.40 $\pm$ 2.50	
<b>BC-5380, BC-5180</b>	Neu# $\times 10^9/L$		1.78 $\pm$ 0.33		4.62 $\pm$ 0.77		11.15 $\pm$ 1.64	
<b>QC Mode</b> (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$		1.27 $\pm$ 0.30		2.23 $\pm$ 0.70		3.20 $\pm$ 1.48	
	Mon# $\times 10^9/L$		0.08 $\pm$ 0.08		0.23 $\pm$ 0.23		0.49 $\pm$ 0.49	
	Eos# $\times 10^9/L$		0.17 $\pm$ 0.14		0.62 $\pm$ 0.47		1.56 $\pm$ 1.32	
	Bas# $\times 10^9/L$		1.85 $\pm$ 0.33		5.16 $\pm$ 0.77		12.71 $\pm$ 1.64	
	Neu%		54.0 $\pm$ 10.0		60.0 $\pm$ 10.0		68.0 $\pm$ 10.0	
	Lym%		38.5 $\pm$ 9.0		29.0 $\pm$ 9.0		19.5 $\pm$ 9.0	
	Mon%		2.5 $\pm$ 2.5		3.0 $\pm$ 3.0		3.0 $\pm$ 3.0	
	Eos%		5.0 $\pm$ 4.0		8.0 $\pm$ 6.0		9.5 $\pm$ 8.0	
	Bas%		56.0 $\pm$ 10.0		67.0 $\pm$ 10.0		77.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.20 $\pm$ 0.18		4.04 $\pm$ 0.24		4.76 $\pm$ 0.30	
	HGB g/L		57 $\pm$ 4		118 $\pm$ 6		151 $\pm$ 8	
	HCT %		18.7 $\pm$ 1.5		38.8 $\pm$ 2.0		50.2 $\pm$ 2.4	
	MCV fL		85.0 $\pm$ 5.0		96.0 $\pm$ 5.0		105.5 $\pm$ 5.0	
	MCH pg		25.9 $\pm$ 2.5		29.2 $\pm$ 2.5		31.7 $\pm$ 2.5	
	MCHC g/L		305 $\pm$ 30		304 $\pm$ 30		301 $\pm$ 30	
	RDW-CV %		16.5 $\pm$ 3.0		14.0 $\pm$ 3.0		13.5 $\pm$ 3.0	
	RDW-SD fL		61.0 $\pm$ 8.0		60.0 $\pm$ 8.0		62.0 $\pm$ 8.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		241 $\pm$ 40		475 $\pm$ 60	
	MPV fL		10.3 $\pm$ 3.0		8.8 $\pm$ 3.0		8.6 $\pm$ 3.0	
	PCT %*		0.049 $\pm$ 0.049		0.211 $\pm$ 0.100		0.405 $\pm$ 0.200	
	PDW*		15.4 $\pm$ 3.0		16.2 $\pm$ 3.0		15.8 $\pm$ 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES


**BC2601B**  
**2026-03-10**

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2601BL	LOT	BC2601BN	LOT	BC2601BH	
<b>BC-5300, BC-5100</b> <b>BC-5380, BC-5180</b> <b>QC Mode</b> (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$	3.24	$\pm 0.50$	7.85	$\pm 1.00$	16.75	$\pm 2.50$	
	Neu# $\times 10^9/L$	1.76	$\pm 0.33$	4.71	$\pm 0.79$	11.23	$\pm 1.68$	
	Lym# $\times 10^9/L$	1.23	$\pm 0.30$	2.28	$\pm 0.71$	3.27	$\pm 1.35$	
	Mon# $\times 10^9/L$	0.08	$\pm 0.08$	0.22	$\pm 0.22$	0.57	$\pm 0.51$	
	Eos# $\times 10^9/L$	0.17	$\pm 0.14$	0.64	$\pm 0.48$	1.68	$\pm 1.35$	
	Bas# $\times 10^9/L$	1.84	$\pm 0.33$	5.26	$\pm 0.79$	13.12	$\pm 1.68$	
	Neu%	54.5	$\pm 10.0$	60.0	$\pm 10.0$	67.1	$\pm 10.0$	
	Lym%	38.0	$\pm 9.0$	29.1	$\pm 9.0$	19.5	$\pm 8.0$	
	Mon%	2.4	$\pm 2.4$	2.8	$\pm 2.8$	3.4	$\pm 3.0$	
	Eos%	5.1	$\pm 4.0$	8.1	$\pm 6.0$	10.0	$\pm 8.0$	
	Bas%	56.7	$\pm 10.0$	67.0	$\pm 10.0$	78.3	$\pm 10.0$	
	RBC $\times 10^{12}/L$	2.20	$\pm 0.18$	4.04	$\pm 0.24$	4.83	$\pm 0.30$	
	HGB g/L	56	$\pm 4$	119	$\pm 6$	153	$\pm 8$	
	HCT %	18.3	$\pm 1.5$	38.1	$\pm 2.0$	49.5	$\pm 2.4$	
	MCV fL	83.0	$\pm 5.0$	94.4	$\pm 5.0$	102.5	$\pm 5.0$	
	MCH pg	25.5	$\pm 2.5$	29.5	$\pm 2.5$	31.7	$\pm 2.5$	
	MCHC g/L	307	$\pm 30$	312	$\pm 30$	309	$\pm 30$	
	RDW-CV %	16.8	$\pm 3.0$	14.8	$\pm 3.0$	14.4	$\pm 3.0$	
	RDW-SD fL	58.3	$\pm 8.0$	58.6	$\pm 8.0$	61.4	$\pm 8.0$	
	PLT $\times 10^9/L$	48	$\pm 20$	250	$\pm 40$	495	$\pm 60$	
	MPV fL	10.7	$\pm 3.0$	9.2	$\pm 3.0$	8.9	$\pm 3.0$	
	PCT %*	0.051	$\pm 0.051$	0.230	$\pm 0.100$	0.441	$\pm 0.200$	
	PDW*	15.4	$\pm 3.0$	16.3	$\pm 3.0$	15.8	$\pm 3.0$	
<b>BC-5000, BC-5150, BC-5120</b> <b>BC-5130, BC-5140, BC-5000VET</b> <b>QC Mode</b>	WBC $\times 10^9/L$	3.34	$\pm 0.50$	7.88	$\pm 1.00$	16.82	$\pm 2.50$	
	Neu# $\times 10^9/L$	1.70	$\pm 0.41$	4.40	$\pm 0.95$	10.62	$\pm 2.02$	
	Lym# $\times 10^9/L$	1.28	$\pm 0.30$	2.31	$\pm 0.63$	3.11	$\pm 1.35$	
	Mon# $\times 10^9/L$	0.16	$\pm 0.16$	0.48	$\pm 0.48$	1.13	$\pm 1.13$	
	Eos# $\times 10^9/L$	0.17	$\pm 0.17$	0.60	$\pm 0.60$	1.67	$\pm 1.67$	
	Bas# $\times 10^9/L$	0.03	$\pm 0.03$	0.09	$\pm 0.09$	0.29	$\pm 0.29$	
	Neu%	50.8	$\pm 12.0$	55.8	$\pm 12.0$	63.2	$\pm 12.0$	
	Lym%	38.3	$\pm 9.0$	29.3	$\pm 8.0$	18.5	$\pm 8.0$	
	Mon%	4.9	$\pm 4.9$	6.1	$\pm 6.1$	6.7	$\pm 6.7$	
	Eos%	5.1	$\pm 5.1$	7.6	$\pm 7.6$	9.9	$\pm 9.9$	
	Bas%	0.9	$\pm 0.9$	1.2	$\pm 1.2$	1.7	$\pm 1.7$	
	RBC $\times 10^{12}/L$	2.20	$\pm 0.18$	4.11	$\pm 0.24$	4.92	$\pm 0.30$	
	HGB g/L	57	$\pm 4$	121	$\pm 6$	157	$\pm 8$	
	HCT %	18.1	$\pm 1.5$	38.1	$\pm 2.0$	49.0	$\pm 2.4$	
	MCV fL	82.1	$\pm 5.0$	92.6	$\pm 5.0$	99.5	$\pm 5.0$	
	MCH pg	25.9	$\pm 2.5$	29.4	$\pm 2.5$	31.9	$\pm 2.5$	
	MCHC g/L	316	$\pm 30$	318	$\pm 30$	321	$\pm 30$	
	RDW-CV %	20.6	$\pm 3.0$	17.9	$\pm 3.0$	17.1	$\pm 3.0$	
	RDW-SD fL	60.7	$\pm 8.0$	59.4	$\pm 8.0$	60.8	$\pm 8.0$	
	PLT $\times 10^9/L$	48	$\pm 20$	252	$\pm 40$	510	$\pm 60$	
	MPV fL	12.9	$\pm 3.0$	11.0	$\pm 3.0$	10.9	$\pm 3.0$	
	PCT %*	0.062	$\pm 0.062$	0.277	$\pm 0.100$	0.556	$\pm 0.200$	
	PDW*	15.0	$\pm 3.0$	16.2	$\pm 3.0$	16.0	$\pm 3.0$	
	P-LCC $\times 10^9/L$ **	24	$\pm 24$	82	$\pm 25$	161	$\pm 35$	
	P-LCR %**	49.1	$\pm 10.0$	32.4	$\pm 10.0$	31.6	$\pm 10.0$	

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

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# BC-5D

## HEMATOLOGY CONTROLS

**CONTROL**

## ASSAY VALUES AND EXPECTED RANGES

**LOT****BC2601B****2026-03-10**

Instrument	Parameter	Low		Normal		High		++++
		<b>LOT</b>	<b>BC2601BL</b>	<b>LOT</b>	<b>BC2601BN</b>	<b>LOT</b>	<b>BC2601BH</b>	
<b>BC-5300Vet, BC-5100Vet</b> <b>QC Mode</b>	WBC $\times 10^9/L$		3.30 $\pm$ 0.50		7.70 $\pm$ 1.00		16.40 $\pm$ 2.50	
	Neu# $\times 10^9/L$		1.78 $\pm$ 0.33		4.62 $\pm$ 0.77		11.15 $\pm$ 1.64	
	Lym# $\times 10^9/L$		1.27 $\pm$ 0.30		2.23 $\pm$ 0.70		3.20 $\pm$ 1.48	
	Mon# $\times 10^9/L$		0.08 $\pm$ 0.08		0.23 $\pm$ 0.23		0.49 $\pm$ 0.49	
	Eos# $\times 10^9/L$		0.17 $\pm$ 0.14		0.62 $\pm$ 0.47		1.56 $\pm$ 1.32	
	Neu%		54.0 $\pm$ 10.0		60.0 $\pm$ 10.0		68.0 $\pm$ 10.0	
	Lym%		38.5 $\pm$ 9.0		29.0 $\pm$ 9.0		19.5 $\pm$ 9.0	
	Mon%		2.5 $\pm$ 2.5		3.0 $\pm$ 3.0		3.0 $\pm$ 3.0	
	Eos%		5.0 $\pm$ 4.5		8.0 $\pm$ 6.0		9.5 $\pm$ 8.0	
	RBC $\times 10^{12}/L$		2.20 $\pm$ 0.18		4.04 $\pm$ 0.24		4.76 $\pm$ 0.30	
	HGB g/L		57 $\pm$ 4		118 $\pm$ 6		151 $\pm$ 8	
	HCT %		18.7 $\pm$ 1.5		38.8 $\pm$ 2.0		50.2 $\pm$ 2.4	
	MCV fL		85.0 $\pm$ 5.0		96.0 $\pm$ 5.0		105.5 $\pm$ 5.0	
	MCH pg		25.9 $\pm$ 2.5		29.2 $\pm$ 2.5		31.7 $\pm$ 2.5	
	MCHC g/L		305 $\pm$ 30		304 $\pm$ 30		301 $\pm$ 30	
	RDW-CV %		16.5 $\pm$ 3.0		14.0 $\pm$ 3.0		13.5 $\pm$ 3.0	
	RDW-SD fL		61.0 $\pm$ 8.0		60.0 $\pm$ 8.0		62.0 $\pm$ 8.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		241 $\pm$ 40		475 $\pm$ 60	
	MPV fL		10.3 $\pm$ 3.0		8.8 $\pm$ 3.0		8.6 $\pm$ 3.0	
	PCT %*		0.049 $\pm$ 0.049		0.211 $\pm$ 0.100		0.405 $\pm$ 0.200	
	PDW*		15.4 $\pm$ 3.0		16.2 $\pm$ 3.0		15.8 $\pm$ 3.0	

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