

# BC-5D

## HEMATOLOGY CONTROLS

<b>CONTROL</b>
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ASSAY VALUES AND EXPECTED RANGES



**BC1909B**  
**2019-11-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC1909BL	LOT	BC1909BN	LOT	BC1909BH	
<b>BC-5800,BC-5600</b>	WBC ×10 <sup>9</sup> /L		3.50 ± 0.50		7.90 ± 1.00		17.90 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.75 ± 0.32		4.42 ± 0.64		11.37 ± 1.44	
	Lym# ×10 <sup>9</sup> /L		1.31 ± 0.32		2.25 ± 0.64		3.58 ± 1.44	
	Mon# ×10 <sup>9</sup> /L		0.23 ± 0.18		0.55 ± 0.48		1.25 ± 1.07	
	Eos# ×10 <sup>9</sup> /L		0.18 ± 0.15		0.59 ± 0.48		1.52 ± 1.26	
	Bas# ×10 <sup>9</sup> /L		0.04 ± 0.04		0.08 ± 0.08		0.18 ± 0.18	
	Neu%		50.0 ± 9.0		56.0 ± 8.0		63.5 ± 8.0	
	Lym%		37.5 ± 9.0		28.5 ± 8.0		20.0 ± 8.0	
	Mon%		6.5 ± 5.0		7.0 ± 6.0		7.0 ± 6.0	
	Eos%		5.0 ± 4.0		7.5 ± 6.0		8.5 ± 7.0	
	Bas%		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC ×10 <sup>12</sup> /L		2.13 ± 0.18		4.11 ± 0.24		4.86 ± 0.30	
	HGB g/L		59 ± 4		133 ± 6		167 ± 8	
	HCT %		18.1 ± 1.5		40.3 ± 2.0		51.8 ± 2.4	
	MCV fL		85.0 ± 5.0		98.0 ± 5.0		106.5 ± 5.0	
	MCH pg		27.7 ± 2.5		32.4 ± 2.5		34.4 ± 2.5	
	MCHC g/L		326 ± 30		330 ± 30		323 ± 30	
	RDW-CV %		15.0 ± 3.0		13.5 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		47.2 ± 10.0		50.0 ± 10.0		51.3 ± 10.0	
	PLT ×10 <sup>9</sup> /L		52 ± 20		246 ± 40		475 ± 60	
	MPV fL		7.1 ± 3.0		7.7 ± 3.0		7.7 ± 3.0	
	PCT %*		0.050 ± 0.050		0.200 ± 0.100		0.380 ± 0.200	
	PDW*		15.2 ± 3.0		15.7 ± 3.0		15.9 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L		15 ± 15		42 ± 25		88 ± 35	
	P-LCR %		12.0 ± 10.0		17.0 ± 10.0		18.5 ± 10.0	
<b>BC-5500,BC-5200</b>	WBC ×10 <sup>9</sup> /L		3.40 ± 0.50		7.50 ± 1.00		17.05 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.70 ± 0.31		4.13 ± 0.61		10.66 ± 1.37	
	Lym# ×10 <sup>9</sup> /L		1.26 ± 0.31		2.18 ± 0.61		3.50 ± 1.37	
	Mon# ×10 <sup>9</sup> /L		0.19 ± 0.18		0.56 ± 0.45		1.11 ± 0.86	
	Eos# ×10 <sup>9</sup> /L		0.22 ± 0.17		0.56 ± 0.45		1.62 ± 1.37	
	Bas# ×10 <sup>9</sup> /L		0.03 ± 0.03		0.08 ± 0.08		0.17 ± 0.17	
	Neu%		50.0 ± 9.0		55.0 ± 8.0		62.5 ± 8.0	
	Lym%		37.0 ± 9.0		29.0 ± 8.0		20.5 ± 8.0	
	Mon%		5.5 ± 5.0		7.5 ± 6.0		6.5 ± 5.0	
	Eos%		6.5 ± 5.0		7.5 ± 6.0		9.5 ± 8.0	
	Bas%		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC ×10 <sup>12</sup> /L		2.19 ± 0.18		4.10 ± 0.24		4.87 ± 0.30	
	HGB g/L		64 ± 4		144 ± 6		181 ± 8	
	HCT %		17.5 ± 1.5		38.5 ± 2.0		48.9 ± 2.4	
	MCV fL		80.0 ± 5.0		94.0 ± 5.0		100.5 ± 5.0	
	MCH pg		29.2 ± 2.5		35.1 ± 2.5		37.2 ± 2.5	
	MCHC g/L		365 ± 30		374 ± 30		370 ± 30	
	RDW-CV %		12.0 ± 3.0		11.0 ± 3.0		10.5 ± 3.0	
	RDW-SD fL		31.5 ± 8.0		34.5 ± 8.0		37.0 ± 8.0	
	PLT ×10 <sup>9</sup> /L		52 ± 20		239 ± 40		455 ± 60	
	MPV fL		7.5 ± 3.0		8.2 ± 3.0		8.3 ± 3.0	
	PCT %*		0.050 ± 0.050		0.200 ± 0.100		0.380 ± 0.200	
	PDW*		15.5 ± 3.0		15.8 ± 3.0		16.2 ± 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

<b>CONTROL</b>
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ASSAY VALUES AND EXPECTED RANGES



**BC1909B**  
**2019-11-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC1909BL	LOT	BC1909BN	LOT	BC1909BH	
<b>BC-5390</b>	WBC ×10 <sup>9</sup> /L		3.35 ± 0.50		7.90 ± 1.00		17.70 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.73 ± 0.31		4.58 ± 0.64		11.59 ± 1.60	
	Lym# ×10 <sup>9</sup> /L		1.19 ± 0.31		2.13 ± 0.64		3.36 ± 1.24	
	Mon# ×10 <sup>9</sup> /L		0.23 ± 0.20		0.55 ± 0.48		1.06 ± 0.89	
	Eos# ×10 <sup>9</sup> /L		0.20 ± 0.17		0.63 ± 0.48		1.68 ± 1.42	
	Bas# ×10 <sup>9</sup> /L		0.82 ± 0.34		2.24 ± 0.79		5.43 ± 1.77	
	Neu%		51.5 ± 9.0		58.0 ± 8.0		65.5 ± 9.0	
	Lym%		35.5 ± 9.0		27.0 ± 8.0		19.0 ± 7.0	
	Mon%		7.0 ± 6.0		7.0 ± 6.0		6.0 ± 5.0	
	Eos%		6.0 ± 5.0		8.0 ± 6.0		9.5 ± 8.0	
	Bas%		24.6 ± 10.0		28.4 ± 10.0		30.7 ± 10.0	
	RBC ×10 <sup>12</sup> /L		2.09 ± 0.18		4.11 ± 0.24		4.86 ± 0.30	
	HGB g/L		53 ± 4		123 ± 6		157 ± 8	
	HCT %		17.2 ± 1.5		39.0 ± 2.0		50.1 ± 2.4	
	MCV fL		82.5 ± 5.0		95.0 ± 5.0		103.0 ± 5.0	
	MCH pg		25.4 ± 2.5		29.9 ± 2.5		32.3 ± 2.5	
	MCHC g/L		307 ± 30		315 ± 30		314 ± 30	
	RDW-CV %		15.0 ± 3.0		13.5 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		47.0 ± 8.0		50.0 ± 8.0		51.0 ± 8.0	
	PLT ×10 <sup>9</sup> /L		51 ± 20		238 ± 40		455 ± 60	
	MPV fL		9.8 ± 3.0		10.4 ± 3.0		10.3 ± 3.0	
<b>BC-5390 CRP</b>	WBC ×10 <sup>9</sup> /L		3.35 ± 0.50		7.70 ± 1.00		17.60 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.76 ± 0.31		4.47 ± 0.62		11.62 ± 1.59	
	Lym# ×10 <sup>9</sup> /L		1.17 ± 0.31		2.00 ± 0.62		3.17 ± 1.24	
	Mon# ×10 <sup>9</sup> /L		0.20 ± 0.17		0.58 ± 0.47		1.06 ± 0.89	
	Eos# ×10 <sup>9</sup> /L		0.22 ± 0.17		0.65 ± 0.54		1.76 ± 1.41	
	Bas# ×10 <sup>9</sup> /L		0.83 ± 0.34		2.19 ± 0.77		5.39 ± 1.77	
	Neu%		52.5 ± 9.0		58.0 ± 8.0		66.0 ± 9.0	
	Lym%		35.0 ± 9.0		26.0 ± 8.0		18.0 ± 7.0	
	Mon%		6.0 ± 5.0		7.5 ± 6.0		6.0 ± 5.0	
	Eos%		6.5 ± 5.0		8.5 ± 7.0		10.0 ± 8.0	
	Bas%		24.9 ± 10.0		28.5 ± 10.0		30.6 ± 10.0	
	RBC ×10 <sup>12</sup> /L		2.09 ± 0.18		4.06 ± 0.24		4.80 ± 0.30	
	HGB g/L		55 ± 4		124 ± 6		156 ± 8	
	HCT %		17.0 ± 1.5		39.0 ± 2.0		49.9 ± 2.4	
	MCV fL		81.5 ± 5.0		96.0 ± 5.0		104.0 ± 5.0	
	MCH pg		26.3 ± 2.5		30.5 ± 2.5		32.5 ± 2.5	
	MCHC g/L		323 ± 30		318 ± 30		313 ± 30	
	RDW-CV %		15.0 ± 3.0		14.0 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		45.5 ± 8.0		48.5 ± 8.0		50.0 ± 8.0	
	PLT ×10 <sup>9</sup> /L		46 ± 20		228 ± 40		440 ± 60	
	MPV fL		7.3 ± 3.0		7.8 ± 3.0		7.8 ± 3.0	
	PCT %*		0.050 ± 0.050		0.180 ± 0.100		0.350 ± 0.200	
	PDW*		15.0 ± 3.0		15.8 ± 3.0		16.0 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L		15 ± 15		31 ± 25		64 ± 35	
	P-LCR %		10.0 ± 10.0		14.0 ± 10.0		15.0 ± 10.0	

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# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

**BC1909B****2019-11-10**

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC1909BL	LOT	BC1909BN	LOT	BC1909BH	
<b>BC-5300,BC-5100</b>	WBC $\times 10^9/L$		3.30 $\pm$ 0.50		7.60 $\pm$ 1.00		17.30 $\pm$ 2.50	
<b>BC-5380,BC-5180</b>	Neu# $\times 10^9/L$		1.78 $\pm$ 0.30		4.51 $\pm$ 0.61		11.42 $\pm$ 1.39	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.17 $\pm$ 0.30		2.05 $\pm$ 0.61		3.25 $\pm$ 1.39	
(Software version lower than 1.24.00.16860)	Mon# $\times 10^9/L$		0.13 $\pm$ 0.10		0.42 $\pm$ 0.39		0.87 $\pm$ 0.70	
	Eos# $\times 10^9/L$		0.22 $\pm$ 0.20		0.62 $\pm$ 0.46		1.76 $\pm$ 1.39	
	Bas# $\times 10^9/L$		1.84 $\pm$ 0.33		5.34 $\pm$ 0.77		13.42 $\pm$ 1.73	
	Neu%		53.8 $\pm$ 9.0		59.3 $\pm$ 8.0		66.0 $\pm$ 8.0	
	Lym%		35.5 $\pm$ 9.0		27.0 $\pm$ 8.0		18.8 $\pm$ 8.0	
	Mon%		4.0 $\pm$ 3.0		5.5 $\pm$ 5.0		5.0 $\pm$ 4.0	
	Eos%		6.7 $\pm$ 6.0		8.2 $\pm$ 6.0		10.2 $\pm$ 8.0	
	Bas%		55.8 $\pm$ 10.0		70.2 $\pm$ 10.0		77.6 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.09 $\pm$ 0.18		4.10 $\pm$ 0.24		4.85 $\pm$ 0.30	
	HGB g/L		55 $\pm$ 4		124 $\pm$ 6		157 $\pm$ 8	
	HCT %		18.1 $\pm$ 1.5		41.2 $\pm$ 2.0		52.5 $\pm$ 2.4	
	MCV fL		86.8 $\pm$ 5.0		100.5 $\pm$ 5.0		108.3 $\pm$ 5.0	
	MCH pg		26.3 $\pm$ 2.5		30.2 $\pm$ 2.5		32.4 $\pm$ 2.5	
	MCHC g/L		303 $\pm$ 30		301 $\pm$ 30		299 $\pm$ 30	
	RDW-CV %		15.0 $\pm$ 3.0		13.8 $\pm$ 3.0		13.3 $\pm$ 3.0	
	RDW-SD fL		57.5 $\pm$ 8.0		62.0 $\pm$ 8.0		63.8 $\pm$ 8.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		230 $\pm$ 40		439 $\pm$ 60	
	MPV fL		7.6 $\pm$ 3.0		8.0 $\pm$ 3.0		7.9 $\pm$ 3.0	
	PCT %*		0.050 $\pm$ 0.050		0.183 $\pm$ 0.100		0.348 $\pm$ 0.200	
	PDW*		15.3 $\pm$ 3.0		15.9 $\pm$ 3.0		16.0 $\pm$ 3.0	
<b>BC-5300,BC-5100</b>	WBC $\times 10^9/L$		3.35 $\pm$ 0.50		7.70 $\pm$ 1.00		17.55 $\pm$ 2.50	
<b>BC-5380,BC-5180</b>	Neu# $\times 10^9/L$		1.81 $\pm$ 0.31		4.54 $\pm$ 0.62		11.50 $\pm$ 1.41	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.19 $\pm$ 0.31		2.08 $\pm$ 0.62		3.33 $\pm$ 1.41	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.13 $\pm$ 0.10		0.42 $\pm$ 0.31		0.88 $\pm$ 0.71	
	Eos# $\times 10^9/L$		0.22 $\pm$ 0.17		0.65 $\pm$ 0.54		1.84 $\pm$ 1.41	
	Bas# $\times 10^9/L$		1.93 $\pm$ 0.34		5.44 $\pm$ 0.78		13.69 $\pm$ 1.76	
	Neu%		54.0 $\pm$ 9.0		59.0 $\pm$ 8.0		65.5 $\pm$ 8.0	
	Lym%		35.5 $\pm$ 9.0		27.0 $\pm$ 8.0		19.0 $\pm$ 8.0	
	Mon%		4.0 $\pm$ 3.0		5.5 $\pm$ 4.0		5.0 $\pm$ 4.0	
	Eos%		6.5 $\pm$ 5.0		8.5 $\pm$ 7.0		10.5 $\pm$ 8.0	
	Bas%		57.5 $\pm$ 10.0		70.6 $\pm$ 10.0		78.0 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.10 $\pm$ 0.18		4.05 $\pm$ 0.24		4.82 $\pm$ 0.30	
	HGB g/L		56 $\pm$ 4		124 $\pm$ 6		156 $\pm$ 8	
	HCT %		17.7 $\pm$ 1.5		40.1 $\pm$ 2.0		51.6 $\pm$ 2.4	
	MCV fL		84.5 $\pm$ 5.0		99.0 $\pm$ 5.0		107.0 $\pm$ 5.0	
	MCH pg		26.7 $\pm$ 2.5		30.6 $\pm$ 2.5		32.4 $\pm$ 2.5	
	MCHC g/L		316 $\pm$ 30		309 $\pm$ 30		302 $\pm$ 30	
	RDW-CV %		15.0 $\pm$ 3.0		14.0 $\pm$ 3.0		13.5 $\pm$ 3.0	
	RDW-SD fL		54.0 $\pm$ 8.0		58.0 $\pm$ 8.0		60.0 $\pm$ 8.0	
	PLT $\times 10^9/L$		47 $\pm$ 20		228 $\pm$ 40		445 $\pm$ 60	
	MPV fL		7.6 $\pm$ 3.0		8.0 $\pm$ 3.0		8.1 $\pm$ 3.0	
	PCT %*		0.050 $\pm$ 0.050		0.180 $\pm$ 0.100		0.355 $\pm$ 0.200	
	PDW*		15.0 $\pm$ 3.0		15.7 $\pm$ 3.0		15.9 $\pm$ 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

<b>CONTROL</b>
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ASSAY VALUES AND EXPECTED RANGES

<b>LOT</b>
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**BC1909B****2019-11-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC1909BL	LOT	BC1909BN	LOT	BC1909BH	
<b>BC-5000,BC-5150,BC-5120</b>	WBC ×10 <sup>9</sup> /L		3.40 ± 0.50		7.55 ± 1.00		17.10 ± 2.50	
<b>BC-5130,BC-5140,BC-5000VET</b>	Neu# ×10 <sup>9</sup> /L		1.71 ± 0.41		4.18 ± 0.91		10.76 ± 2.06	
<b>QC Mode</b>	Lym# ×10 <sup>9</sup> /L		1.22 ± 0.31		2.01 ± 0.61		3.04 ± 1.20	
	Mon# ×10 <sup>9</sup> /L		0.24 ± 0.24		0.72 ± 0.72		1.44 ± 1.44	
	Eos# ×10 <sup>9</sup> /L		0.20 ± 0.20		0.54 ± 0.54		1.59 ± 1.59	
	Bas# ×10 <sup>9</sup> /L		0.03 ± 0.03		0.10 ± 0.10		0.27 ± 0.27	
	Neu%		50.3 ± 12.0		55.4 ± 12.0		62.9 ± 12.0	
	Lym%		35.8 ± 9.0		26.6 ± 8.0		17.8 ± 7.0	
	Mon%		7.0 ± 7.0		9.5 ± 9.5		8.4 ± 8.4	
	Eos%		5.9 ± 5.9		7.2 ± 7.2		9.3 ± 9.3	
	Bas%		1.0 ± 1.0		1.3 ± 1.3		1.6 ± 1.6	
	RBC ×10 <sup>12</sup> /L		2.11 ± 0.18		4.12 ± 0.24		4.89 ± 0.30	
	HGB g/L		55 ± 4		127 ± 6		162 ± 8	
	HCT %		18.3 ± 1.5		40.4 ± 2.0		51.1 ± 2.4	
	MCV fL		86.5 ± 5.0		98.0 ± 5.0		104.5 ± 5.0	
	MCH pg		26.1 ± 2.5		30.8 ± 2.5		33.1 ± 2.5	
	MCHC g/L		301 ± 30		315 ± 30		317 ± 30	
	RDW-CV %		17.0 ± 3.0		16.0 ± 3.0		15.0 ± 3.0	
	RDW-SD fL		56.0 ± 8.0		57.5 ± 8.0		58.5 ± 8.0	
	PLT ×10 <sup>9</sup> /L		49 ± 20		245 ± 40		469 ± 60	
	MPV fL		9.6 ± 3.0		9.7 ± 3.0		9.5 ± 3.0	
	PCT %*		0.050 ± 0.050		0.240 ± 0.100		0.445 ± 0.200	
	PDW*		15.3 ± 3.0		16.0 ± 3.0		16.2 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L**		15 ± 15		58 ± 25		106 ± 35	
	P-LCR %**		24.0 ± 10.0		23.5 ± 10.0		23.0 ± 10.0	
<b>BC-5300Vet,BC-5100Vet</b>	WBC ×10 <sup>9</sup> /L		3.30 ± 0.50		7.60 ± 1.00		17.30 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.78 ± 0.30		4.51 ± 0.61		11.42 ± 1.39	
	Lym# ×10 <sup>9</sup> /L		1.17 ± 0.30		2.05 ± 0.61		3.25 ± 1.39	
	Mon# ×10 <sup>9</sup> /L		0.13 ± 0.10		0.42 ± 0.39		0.87 ± 0.70	
	Eos# ×10 <sup>9</sup> /L		0.22 ± 0.20		0.62 ± 0.46		1.76 ± 1.39	
	Neu%		53.8 ± 9.0		59.3 ± 8.0		66.0 ± 8.0	
	Lym%		35.5 ± 9.0		27.0 ± 8.0		18.8 ± 8.0	
	Mon%		4.0 ± 3.0		5.5 ± 5.0		5.0 ± 4.0	
	Eos%		6.7 ± 6.0		8.2 ± 6.0		10.2 ± 8.0	
	RBC ×10 <sup>12</sup> /L		2.09 ± 0.18		4.10 ± 0.24		4.85 ± 0.30	
	HGB g/L		55 ± 4		124 ± 6		157 ± 8	
	HCT %		18.1 ± 1.5		41.2 ± 2.0		52.5 ± 2.4	
	MCV fL		86.8 ± 5.0		100.5 ± 5.0		108.3 ± 5.0	
	MCH pg		26.3 ± 2.5		30.2 ± 2.5		32.4 ± 2.5	
	MCHC g/L		303 ± 30		301 ± 30		299 ± 30	
	RDW-CV %		15.0 ± 3.0		13.8 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		57.5 ± 8.0		62.0 ± 8.0		63.8 ± 8.0	
	PLT ×10 <sup>9</sup> /L		48 ± 20		230 ± 40		439 ± 60	
	MPV fL		7.6 ± 3.0		8.0 ± 3.0		7.9 ± 3.0	
	PCT %*		0.050 ± 0.050		0.183 ± 0.100		0.348 ± 0.200	
	PDW*		15.3 ± 3.0		15.9 ± 3.0		16.0 ± 3.0	

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<b>EC</b>	<b>REP</b>
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