

# BC-5D

## HEMATOLOGY CONTROLS

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

<b>LOT</b>
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**BC2207B****2022-09-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2207BL	LOT	BC2207BN	LOT	BC2207BH	
<b>BC-5800, BC-5600</b>	WBC ×10 <sup>9</sup> /L	3.48	± 0.50	7.94	± 1.00	17.97	± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L	1.68	± 0.32	4.37	± 0.72	11.48	± 1.62	
	Lym# ×10 <sup>9</sup> /L	1.34	± 0.32	2.37	± 0.64	3.45	± 1.44	
	Mon# ×10 <sup>9</sup> /L	0.26	± 0.22	0.56	± 0.56	1.26	± 0.90	
	Eos# ×10 <sup>9</sup> /L	0.17	± 0.14	0.57	± 0.57	1.60	± 1.26	
	Bas# ×10 <sup>9</sup> /L	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	48.2	± 9.0	55.0	± 9.0	63.9	± 9.0	
	Lym%	38.5	± 9.0	29.8	± 8.0	19.2	± 8.0	
	Mon%	7.4	± 6.0	7.0	± 7.0	7.0	± 5.0	
	Eos%	4.9	± 4.0	7.2	± 7.2	8.9	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC ×10 <sup>12</sup> /L	2.09	± 0.18	4.26	± 0.24	5.07	± 0.30	
	HGB g/L	57	± 4	133	± 6	170	± 8	
	HCT %	17.5	± 1.5	40.1	± 2.0	52.2	± 2.4	
	MCV fL	83.6	± 5.0	94.2	± 5.0	103.0	± 5.0	
	MCH pg	27.3	± 2.5	31.2	± 2.5	33.5	± 2.5	
	MCHC g/L	326	± 30	331	± 30	326	± 30	
	RDW-CV %	16.0	± 3.0	14.1	± 3.0	13.7	± 3.0	
	RDW-SD fL	48.1	± 10.0	49.6	± 10.0	53.3	± 10.0	
	PLT ×10 <sup>9</sup> /L	48	± 20	260	± 40	514	± 60	
	MPV fL	8.9	± 3.0	9.2	± 3.0	9.2	± 3.0	
	PCT %*	0.043	± 0.043	0.239	± 0.100	0.473	± 0.200	
	PDW*	17.2	± 3.0	16.4	± 3.0	16.0	± 3.0	
	P-LCC ×10 <sup>9</sup> /L	15	± 15	76	± 25	149	± 35	
	P-LCR %	30.7	± 10.0	29.2	± 10.0	29.0	± 10.0	
<b>BC-5390</b>	WBC ×10 <sup>9</sup> /L	3.10	± 0.50	7.60	± 1.00	16.75	± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L	1.55	± 0.28	4.33	± 0.69	10.80	± 1.51	
	Lym# ×10 <sup>9</sup> /L	1.19	± 0.28	2.13	± 0.69	3.02	± 1.18	
	Mon# ×10 <sup>9</sup> /L	0.17	± 0.13	0.49	± 0.38	1.17	± 0.84	
	Eos# ×10 <sup>9</sup> /L	0.19	± 0.16	0.65	± 0.54	1.76	± 1.35	
	Bas# ×10 <sup>9</sup> /L	0.71	± 0.31	2.08	± 0.76	5.11	± 1.68	
	Neu%	50.0	± 9.0	57.0	± 9.0	64.5	± 9.0	
	Lym%	38.5	± 9.0	28.0	± 9.0	18.0	± 7.0	
	Mon%	5.5	± 4.0	6.5	± 5.0	7.0	± 5.0	
	Eos%	6.0	± 5.0	8.5	± 7.0	10.5	± 8.0	
	Bas%	23.0	± 10.0	27.4	± 10.0	30.5	± 10.0	
	RBC ×10 <sup>12</sup> /L	2.00	± 0.18	4.20	± 0.24	5.01	± 0.30	
	HGB g/L	52	± 4	124	± 6	159	± 8	
	HCT %	16.6	± 1.5	38.6	± 2.0	50.6	± 2.4	
	MCV fL	83.0	± 5.0	92.0	± 5.0	101.0	± 5.0	
	MCH pg	26.0	± 2.5	29.5	± 2.5	31.7	± 2.5	
	MCHC g/L	313	± 30	321	± 30	314	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	48.0	± 8.0	48.5	± 8.0	51.0	± 8.0	
	PLT ×10 <sup>9</sup> /L	47	± 20	256	± 40	505	± 60	
	MPV fL	11.9	± 3.0	12.0	± 3.0	11.9	± 3.0	

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ASSAY VALUES AND EXPECTED RANGES

<b>LOT</b>
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**BC2207B**  
**2022-09-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2207BL	LOT	BC2207BN	LOT	BC2207BH	
<b>BC-5390 CRP</b>	WBC ×10 <sup>9</sup> /L		3.11 ± 0.50		7.60 ± 1.00		17.02 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.57 ± 0.28		4.38 ± 0.69		10.94 ± 1.54	
	Lym# ×10 <sup>9</sup> /L		1.16 ± 0.28		2.07 ± 0.61		3.23 ± 1.36	
	Mon# ×10 <sup>9</sup> /L		0.18 ± 0.16		0.50 ± 0.46		1.04 ± 0.86	
	Eos# ×10 <sup>9</sup> /L		0.20 ± 0.16		0.65 ± 0.46		1.80 ± 1.36	
	Bas# ×10 <sup>9</sup> /L		0.72 ± 0.31		2.09 ± 0.76		5.21 ± 1.71	
	Neu%		50.4 ± 9.0		57.6 ± 9.0		64.3 ± 9.0	
	Lym%		37.4 ± 9.0		27.3 ± 8.0		19.0 ± 8.0	
	Mon%		5.9 ± 5.0		6.6 ± 6.0		6.1 ± 5.0	
	Eos%		6.3 ± 5.0		8.5 ± 6.0		10.6 ± 8.0	
	Bas%		23.2 ± 10.0		27.5 ± 10.0		30.6 ± 10.0	
	RBC ×10 <sup>12</sup> /L		2.00 ± 0.18		4.19 ± 0.24		5.00 ± 0.30	
	HGB g/L		53 ± 4		124 ± 6		160 ± 8	
	HCT %		16.3 ± 1.5		38.8 ± 2.0		50.9 ± 2.4	
	MCV fL		81.6 ± 5.0		92.7 ± 5.0		101.7 ± 5.0	
	MCH pg		26.5 ± 2.5		29.6 ± 2.5		32.0 ± 2.5	
	MCHC g/L		325 ± 30		319 ± 30		315 ± 30	
	RDW-CV %		16.1 ± 3.0		14.4 ± 3.0		14.3 ± 3.0	
	RDW-SD fL		46.1 ± 8.0		47.2 ± 8.0		50.7 ± 8.0	
	PLT ×10 <sup>9</sup> /L		43 ± 20		248 ± 40		499 ± 60	
	MPV fL		9.7 ± 3.0		9.7 ± 3.0		9.6 ± 3.0	
	PCT %*		0.042 ± 0.042		0.241 ± 0.100		0.479 ± 0.200	
	PDW*		16.8 ± 3.0		16.5 ± 3.0		16.3 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L		12 ± 12		64 ± 25		124 ± 35	
	P-LCR %		28.9 ± 10.0		26.0 ± 10.0		24.9 ± 10.0	
<b>BC-5300, BC-5100</b>	WBC ×10 <sup>9</sup> /L		3.13 ± 0.50		7.50 ± 1.00		16.80 ± 2.50	
<b>BC-5380, BC-5180</b>	Neu# ×10 <sup>9</sup> /L		1.66 ± 0.29		4.49 ± 0.68		11.17 ± 1.52	
<b>QC Mode</b>	Lym# ×10 <sup>9</sup> /L		1.17 ± 0.29		2.12 ± 0.68		3.11 ± 1.35	
(Software version lower than 1.24.00.16860)	Mon# ×10 <sup>9</sup> /L		0.14 ± 0.13		0.30 ± 0.23		0.81 ± 0.68	
	Eos# ×10 <sup>9</sup> /L		0.16 ± 0.16		0.60 ± 0.45		1.71 ± 1.35	
	Bas# ×10 <sup>9</sup> /L		1.56 ± 0.32		5.00 ± 0.75		12.92 ± 1.68	
	Neu%		53.0 ± 9.0		59.8 ± 9.0		66.5 ± 9.0	
	Lym%		37.3 ± 9.0		28.2 ± 9.0		18.5 ± 8.0	
	Mon%		4.5 ± 4.0		4.0 ± 3.0		4.8 ± 4.0	
	Eos%		5.2 ± 5.0		8.0 ± 6.0		10.2 ± 8.0	
	Bas%		49.8 ± 10.0		66.7 ± 10.0		76.9 ± 10.0	
	RBC ×10 <sup>12</sup> /L		2.01 ± 0.18		4.20 ± 0.24		4.99 ± 0.30	
	HGB g/L		54 ± 4		124 ± 6		158 ± 8	
	HCT %		17.3 ± 1.5		40.4 ± 2.0		52.5 ± 2.4	
	MCV fL		86.3 ± 5.0		96.3 ± 5.0		105.3 ± 5.0	
	MCH pg		26.9 ± 2.5		29.5 ± 2.5		31.7 ± 2.5	
	MCHC g/L		311 ± 30		307 ± 30		301 ± 30	
	RDW-CV %		15.8 ± 3.0		14.0 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		59.3 ± 8.0		59.3 ± 8.0		63.3 ± 8.0	
	PLT ×10 <sup>9</sup> /L		43 ± 20		245 ± 40		488 ± 60	
	MPV fL		9.6 ± 3.0		9.5 ± 3.0		9.4 ± 3.0	
	PCT %*		0.040 ± 0.040		0.232 ± 0.100		0.457 ± 0.200	
	PDW*		16.7 ± 3.0		16.3 ± 3.0		16.2 ± 3.0	

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# BC-5D

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ASSAY VALUES AND EXPECTED RANGES

<b>LOT</b>
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**BC2207B****2022-09-10**

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2207BL	LOT	BC2207BN	LOT	BC2207BH	
<b>BC-5300, BC-5100</b>	WBC $\times 10^9/L$		3.08 $\pm$ 0.50		7.53 $\pm$ 1.00		16.87 $\pm$ 2.50	
<b>BC-5380, BC-5180</b>	Neu# $\times 10^9/L$		1.65 $\pm$ 0.28		4.50 $\pm$ 0.68		11.17 $\pm$ 1.52	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.13 $\pm$ 0.28		2.11 $\pm$ 0.61		3.12 $\pm$ 1.35	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.14 $\pm$ 0.13		0.26 $\pm$ 0.23		0.78 $\pm$ 0.68	
	Eos# $\times 10^9/L$		0.17 $\pm$ 0.16		0.66 $\pm$ 0.54		1.81 $\pm$ 1.36	
	Bas# $\times 10^9/L$		1.54 $\pm$ 0.31		5.07 $\pm$ 0.76		13.12 $\pm$ 1.69	
	Neu%		53.5 $\pm$ 9.0		59.8 $\pm$ 9.0		66.2 $\pm$ 9.0	
	Lym%		36.6 $\pm$ 9.0		28.0 $\pm$ 8.0		18.5 $\pm$ 8.0	
	Mon%		4.5 $\pm$ 4.0		3.5 $\pm$ 3.0		4.6 $\pm$ 4.0	
	Eos%		5.4 $\pm$ 5.0		8.7 $\pm$ 7.0		10.7 $\pm$ 8.0	
	Bas%		50.1 $\pm$ 10.0		67.3 $\pm$ 10.0		77.8 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.02 $\pm$ 0.18		4.19 $\pm$ 0.24		4.99 $\pm$ 0.30	
	HGB g/L		53 $\pm$ 4		124 $\pm$ 6		159 $\pm$ 8	
	HCT %		16.7 $\pm$ 1.5		39.4 $\pm$ 2.0		51.3 $\pm$ 2.4	
	MCV fL		82.9 $\pm$ 5.0		94.0 $\pm$ 5.0		102.9 $\pm$ 5.0	
	MCH pg		26.2 $\pm$ 2.5		29.6 $\pm$ 2.5		31.9 $\pm$ 2.5	
	MCHC g/L		316 $\pm$ 30		315 $\pm$ 30		310 $\pm$ 30	
	RDW-CV %		15.9 $\pm$ 3.0		14.2 $\pm$ 3.0		13.8 $\pm$ 3.0	
	RDW-SD fL		54.7 $\pm$ 8.0		55.7 $\pm$ 8.0		60.4 $\pm$ 8.0	
	PLT $\times 10^9/L$		43 $\pm$ 20		250 $\pm$ 40		496 $\pm$ 60	
	MPV fL		9.5 $\pm$ 3.0		9.3 $\pm$ 3.0		9.2 $\pm$ 3.0	
	PCT %*		0.041 $\pm$ 0.041		0.233 $\pm$ 0.100		0.456 $\pm$ 0.200	
	PDW*		16.9 $\pm$ 3.0		16.5 $\pm$ 3.0		16.2 $\pm$ 3.0	
<b>BC-5000, BC-5150, BC-5120</b>	WBC $\times 10^9/L$		3.32 $\pm$ 0.50		7.66 $\pm$ 1.00		17.05 $\pm$ 2.50	
<b>BC-5130, BC-5140, BC-5000VET</b>	Neu# $\times 10^9/L$		1.62 $\pm$ 0.40		4.40 $\pm$ 0.92		10.74 $\pm$ 2.05	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.19 $\pm$ 0.30		2.05 $\pm$ 0.62		2.95 $\pm$ 1.20	
	Mon# $\times 10^9/L$		0.30 $\pm$ 0.30		0.59 $\pm$ 0.59		1.38 $\pm$ 1.38	
	Eos# $\times 10^9/L$		0.18 $\pm$ 0.18		0.52 $\pm$ 0.52		1.67 $\pm$ 1.67	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.11 $\pm$ 0.11		0.31 $\pm$ 0.31	
	Neu%		48.9 $\pm$ 12.0		57.4 $\pm$ 12.0		63.0 $\pm$ 12.0	
	Lym%		35.7 $\pm$ 9.0		26.7 $\pm$ 8.0		17.3 $\pm$ 7.0	
	Mon%		9.0 $\pm$ 9.0		7.7 $\pm$ 7.7		8.1 $\pm$ 8.1	
	Eos%		5.4 $\pm$ 5.4		6.8 $\pm$ 6.8		9.8 $\pm$ 9.8	
	Bas%		1.0 $\pm$ 1.0		1.4 $\pm$ 1.4		1.8 $\pm$ 1.8	
	RBC $\times 10^{12}/L$		2.03 $\pm$ 0.18		4.27 $\pm$ 0.24		5.10 $\pm$ 0.30	
	HGB g/L		54 $\pm$ 4		126 $\pm$ 6		164 $\pm$ 8	
	HCT %		17.0 $\pm$ 1.5		39.8 $\pm$ 2.0		51.2 $\pm$ 2.4	
	MCV fL		83.7 $\pm$ 5.0		93.1 $\pm$ 5.0		100.3 $\pm$ 5.0	
	MCH pg		26.6 $\pm$ 2.5		29.5 $\pm$ 2.5		32.2 $\pm$ 2.5	
	MCHC g/L		318 $\pm$ 30		317 $\pm$ 30		321 $\pm$ 30	
	RDW-CV %		19.2 $\pm$ 3.0		17.0 $\pm$ 3.0		16.3 $\pm$ 3.0	
	RDW-SD fL		58.0 $\pm$ 8.0		57.9 $\pm$ 8.0		60.8 $\pm$ 8.0	
	PLT $\times 10^9/L$		45 $\pm$ 20		255 $\pm$ 40		524 $\pm$ 60	
	MPV fL		11.2 $\pm$ 3.0		11.2 $\pm$ 3.0		11.2 $\pm$ 3.0	
	PCT %*		0.050 $\pm$ 0.050		0.286 $\pm$ 0.100		0.587 $\pm$ 0.200	
	PDW*		16.1 $\pm$ 3.0		16.3 $\pm$ 3.0		16.4 $\pm$ 3.0	
	P-LCC $\times 10^9/L$ **		16 $\pm$ 15		87 $\pm$ 25		179 $\pm$ 35	
	P-LCR %**		36.3 $\pm$ 10.0		34.2 $\pm$ 10.0		34.2 $\pm$ 10.0	

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

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# BC-5D

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ASSAY VALUES AND EXPECTED RANGES



**BC2207B**  
**2022-09-10**

Instrument	Parameter	Low		Normal		High		++++
		<b>LOT</b>	BC2207BL	<b>LOT</b>	BC2207BN	<b>LOT</b>	BC2207BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC ×10 <sup>9</sup> /L		3.13 ± 0.50		7.50 ± 1.00		16.80 ± 2.50	
	Neu# ×10 <sup>9</sup> /L		1.66 ± 0.29		4.49 ± 0.68		11.17 ± 1.52	
	Lym# ×10 <sup>9</sup> /L		1.17 ± 0.29		2.12 ± 0.68		3.11 ± 1.35	
	Mon# ×10 <sup>9</sup> /L		0.14 ± 0.13		0.30 ± 0.23		0.81 ± 0.68	
	Eos# ×10 <sup>9</sup> /L		0.16 ± 0.16		0.60 ± 0.45		1.71 ± 1.35	
	Neu%		53.0 ± 9.0		59.8 ± 9.0		66.5 ± 9.0	
	Lym%		37.3 ± 9.0		28.2 ± 9.0		18.5 ± 8.0	
	Mon%		4.5 ± 4.0		4.0 ± 3.0		4.8 ± 4.0	
	Eos%		5.2 ± 5.0		8.0 ± 6.0		10.2 ± 8.0	
	RBC ×10 <sup>12</sup> /L		2.01 ± 0.18		4.20 ± 0.24		4.99 ± 0.30	
	HGB g/L		54 ± 4		124 ± 6		158 ± 8	
	HCT %		17.3 ± 1.5		40.4 ± 2.0		52.5 ± 2.4	
	MCV fL		86.3 ± 5.0		96.3 ± 5.0		105.3 ± 5.0	
	MCH pg		26.9 ± 2.5		29.5 ± 2.5		31.7 ± 2.5	
	MCHC g/L		311 ± 30		307 ± 30		301 ± 30	
	RDW-CV %		15.8 ± 3.0		14.0 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		59.3 ± 8.0		59.3 ± 8.0		63.3 ± 8.0	
	PLT ×10 <sup>9</sup> /L		43 ± 20		245 ± 40		488 ± 60	
	MPV fL		9.6 ± 3.0		9.5 ± 3.0		9.4 ± 3.0	
	PCT %*		0.040 ± 0.040		0.232 ± 0.100		0.457 ± 0.200	
PDW*		16.7 ± 3.0		16.3 ± 3.0		16.2 ± 3.0		

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