

# BC-5D

## HEMATOLOGY CONTROLS

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

<b>LOT</b>
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**BC1703****2017-05-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC1703L	LOT	BC1703N	LOT	BC1703H	
<b>BC-5800, BC-5600</b>	WBC x 10 <sup>9</sup> /L		3.35 ± 0.50		7.95 ± 1.00		17.70 ± 2.50	
<b>QC Mode</b>	Neu x 10 <sup>9</sup> /L		1.64 ± 0.35		4.33 ± 0.65		11.15 ± 1.45	
	Lym x 10 <sup>9</sup> /L		1.29 ± 0.35		2.35 ± 0.65		3.54 ± 1.25	
	Mon x 10 <sup>9</sup> /L		0.23 ± 0.20		0.60 ± 0.50		1.24 ± 1.10	
	Eos x 10 <sup>9</sup> /L		0.15 ± 0.14		0.60 ± 0.50		1.59 ± 1.25	
	Bas x 10 <sup>9</sup> /L		0.03 ± 0.03		0.08 ± 0.08		0.18 ± 0.18	
	Neu %		49.0 ± 9.0		54.5 ± 8.0		63.0 ± 8.0	
	Lym %		38.5 ± 9.0		29.5 ± 8.0		20.0 ± 7.0	
	Mon %		7.0 ± 6.0		7.5 ± 6.0		7.0 ± 6.0	
	Eos %		4.5 ± 4.0		7.5 ± 6.0		9.0 ± 7.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.53 ± 0.18		4.70 ± 0.24		5.27 ± 0.30	
	HGB g/L		63 ± 4		134 ± 6		166 ± 8	
	HCT %		19.4 ± 1.5		40.7 ± 2.0		50.6 ± 2.4	
	MCV fL		76.5 ± 5.0		86.5 ± 5.0		96.0 ± 5.0	
	MCH pg		24.9 ± 2.5		28.5 ± 2.5		31.5 ± 2.5	
	MCHC g/L		326 ± 30		330 ± 30		328 ± 30	
	RDW-CV %		15.0 ± 3.0		14.0 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		43.0 ± 8.0		45.0 ± 8.0		46.5 ± 8.0	
	PLT x 10 <sup>9</sup> /L		55 ± 20		257 ± 40		480 ± 60	
	MPV fL		8.2 ± 3.0		9.0 ± 3.0		9.3 ± 3.0	
	PCT % *		0.050 ± 0.050		0.230 ± 0.100		0.440 ± 0.200	
	PDW fL *		16.8 ± 3.0		16.2 ± 3.0		16.2 ± 3.0	
	P-LCC x 10 <sup>9</sup> /L		15 ± 15		76 ± 25		154 ± 35	
	P-LCR %		25.5 ± 10.0		29.0 ± 10.0		31.0 ± 10.0	
<b>BC-5500, BC-5200</b>	WBC 10 <sup>9</sup> /L		3.30 ± 0.50		7.95 ± 1.00		17.40 ± 2.50	
<b>QC Mode</b>	Neu x 10 <sup>9</sup> /L		1.57 ± 0.30		4.25 ± 0.65		10.79 ± 1.40	
	Lym x 10 <sup>9</sup> /L		1.30 ± 0.30		2.39 ± 0.65		3.57 ± 1.25	
	Mon x 10 <sup>9</sup> /L		0.25 ± 0.24		0.64 ± 0.60		1.22 ± 1.05	
	Eos x 10 <sup>9</sup> /L		0.15 ± 0.14		0.60 ± 0.50		1.65 ± 1.25	
	Bas x 10 <sup>9</sup> /L		0.03 ± 0.03		0.08 ± 0.08		0.17 ± 0.17	
	Neu %		47.5 ± 9.0		53.5 ± 8.0		62.0 ± 8.0	
	Lym %		39.5 ± 9.0		30.0 ± 8.0		20.5 ± 7.0	
	Mon %		7.5 ± 7.0		8.0 ± 7.0		7.0 ± 6.0	
	Eos %		4.5 ± 4.0		7.5 ± 6.0		9.5 ± 7.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.53 ± 0.18		4.65 ± 0.24		5.18 ± 0.30	
	HGB g/L		63 ± 4		136 ± 6		167 ± 8	
	HCT %		18.5 ± 1.5		38.6 ± 2.0		47.9 ± 2.4	
	MCV fL		73.0 ± 5.0		83.0 ± 5.0		92.5 ± 5.0	
	MCH pg		24.9 ± 2.5		29.2 ± 2.5		32.2 ± 2.5	
	MCHC g/L		341 ± 30		352 ± 30		349 ± 30	
	RDW-CV %		12.5 ± 3.0		12.0 ± 3.0		11.5 ± 3.0	
	RDW-SD fL		28.0 ± 8.0		33.0 ± 8.0		36.0 ± 8.0	
	PLT x 10 <sup>9</sup> /L		55 ± 20		247 ± 40		470 ± 60	
	MPV fL		8.9 ± 3.0		9.8 ± 3.0		10.2 ± 3.0	
	PCT % *		0.050 ± 0.050		0.230 ± 0.100		0.440 ± 0.200	
	PDW fL *		16.8 ± 3.0		16.4 ± 3.0		16.5 ± 3.0	

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ASSAY VALUES AND EXPECTED RANGES

<b>LOT</b>
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**BC1703**  
**2017-05-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC1703L	LOT	BC1703N	LOT	BC1703H	
<b>BC-5300, BC-5100</b>	WBC $10^9/L$		3.25 ± 0.50		8.00 ± 1.00		17.40 ± 2.50	
<b>BC-5380, BC-5180</b>	Neu x $10^9/L$		1.67 ± 0.30		4.54 ± 0.65		11.36 ± 1.40	
<b>QC Mode</b>	Lym x $10^9/L$		1.27 ± 0.30		2.36 ± 0.65		3.43 ± 1.40	
	Mon x $10^9/L$		0.16 ± 0.13		0.48 ± 0.40		1.04 ± 0.90	
	Eos x $10^9/L$		0.15 ± 0.15		0.62 ± 0.50		1.57 ± 1.25	
	Bas x $10^9/L$		1.52 ± 0.35		5.10 ± 0.80		13.03 ± 1.75	
	Neu %		51.3 ± 9.0		56.8 ± 8.0		65.3 ± 8.0	
	Lym %		39.0 ± 9.0		29.5 ± 8.0		19.7 ± 8.0	
	Mon %		5.0 ± 4.0		6.0 ± 5.0		6.0 ± 5.0	
	Eos %		4.7 ± 4.5		7.7 ± 6.0		9.0 ± 7.0	
	Bas %		46.7 ± 10.0		63.7 ± 10.0		74.9 ± 10.0	
	RBC x $10^{12}/L$		2.45 ± 0.18		4.63 ± 0.24		5.13 ± 0.30	
	HGB g/L		62 ± 4		133 ± 6		164 ± 8	
	HCT %		19.7 ± 1.5		41.7 ± 2.0		51.2 ± 2.4	
	MCV fL		80.3 ± 5.0		90.0 ± 5.0		99.8 ± 5.0	
	MCH pg		25.3 ± 2.5		28.7 ± 2.5		32.0 ± 2.5	
	MCHC g/L		315 ± 30		319 ± 30		320 ± 30	
	RDW-CV %		15.2 ± 3.0		14.3 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		53.3 ± 8.0		55.8 ± 8.0		57.3 ± 8.0	
	PLT x $10^9/L$		49 ± 20		241 ± 40		458 ± 60	
	MPV fL		9.2 ± 3.0		9.4 ± 3.0		9.5 ± 3.0	
	PCT % *		0.050 ± 0.050		0.235 ± 0.100		0.425 ± 0.200	
	PDW fL *		16.0 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	
<b>BC-5300Vet, BC-5100Vet</b>	WBC $10^9/L$		3.25 ± 0.50		8.00 ± 1.00		17.40 ± 2.50	
<b>QC Mode</b>	Neu x $10^9/L$		1.67 ± 0.30		4.54 ± 0.65		11.36 ± 1.40	
	Lym x $10^9/L$		1.27 ± 0.30		2.36 ± 0.65		3.43 ± 1.40	
	Mon x $10^9/L$		0.16 ± 0.13		0.48 ± 0.40		1.04 ± 0.90	
	Eos x $10^9/L$		0.15 ± 0.15		0.62 ± 0.50		1.57 ± 1.25	
	Neu %		51.3 ± 9.0		56.8 ± 8.0		65.3 ± 8.0	
	Lym %		39.0 ± 9.0		29.5 ± 8.0		19.7 ± 8.0	
	Mon %		5.0 ± 4.0		6.0 ± 5.0		6.0 ± 5.0	
	Eos %		4.7 ± 4.5		7.7 ± 6.0		9.0 ± 7.0	
	RBC x $10^{12}/L$		2.45 ± 0.18		4.63 ± 0.24		5.13 ± 0.30	
	HGB g/L		62 ± 4		133 ± 6		164 ± 8	
	HCT %		19.7 ± 1.5		41.7 ± 2.0		51.2 ± 2.4	
	MCV fL		80.3 ± 5.0		90.0 ± 5.0		99.8 ± 5.0	
	MCH pg		25.3 ± 2.5		28.7 ± 2.5		32.0 ± 2.5	
	MCHC g/L		315 ± 30		319 ± 30		320 ± 30	
	RDW-CV %		15.2 ± 3.0		14.3 ± 3.0		13.3 ± 3.0	
	RDW-SD fL		53.3 ± 8.0		55.8 ± 8.0		57.3 ± 8.0	
	PLT x $10^9/L$		49 ± 20		241 ± 40		458 ± 60	
	MPV fL		9.2 ± 3.0		9.4 ± 3.0		9.5 ± 3.0	
	PCT % *		0.050 ± 0.050		0.235 ± 0.100		0.425 ± 0.200	
	PDW fL *		16.0 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	

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<b>LOT</b>
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**BC1703****2017-05-10**

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC1703L	LOT	BC1703N	LOT	BC1703H	
BC-5000, BC-5150	WBC $10^9/L$		3.25 ± 0.50		7.75 ± 1.00		17.10 ± 2.50	
BC-5000Vet	Neu x $10^9/L$		1.53 ± 0.40		4.05 ± 0.95		10.45 ± 2.10	
QC Mode	Lym x $10^9/L$		1.24 ± 0.30		2.28 ± 0.65		3.25 ± 1.20	
	Mon x $10^9/L$		0.35 ± 0.35		0.82 ± 0.82		1.71 ± 1.71	
	Eos x $10^9/L$		0.11 ± 0.11		0.50 ± 0.50		1.44 ± 1.44	
	Bas x $10^9/L$		0.02 ± 0.02		0.09 ± 0.09		0.26 ± 0.26	
	Neu %		47.2 ± 12.0		52.3 ± 12.0		61.1 ± 12.0	
	Lym %		38.0 ± 9.0		29.4 ± 8.0		19.0 ± 7.0	
	Mon %		10.7 ± 10.7		10.6 ± 10.6		10.0 ± 10.0	
	Eos %		3.5 ± 3.5		6.5 ± 6.5		8.4 ± 8.4	
	Bas %		0.6 ± 0.6		1.2 ± 1.2		1.5 ± 1.5	
	RBC x $10^{12}/L$		2.42 ± 0.18		4.62 ± 0.24		5.16 ± 0.30	
	HGB g/L		61 ± 4		133 ± 6		164 ± 8	
	HCT %		18.5 ± 1.5		40.0 ± 2.0		49.0 ± 2.4	
	MCV fL		76.5 ± 5.0		86.5 ± 5.0		95.0 ± 5.0	
	MCH pg		25.2 ± 2.5		28.8 ± 2.5		31.8 ± 2.5	
	MCHC g/L		329 ± 30		333 ± 30		335 ± 30	
	RDW-CV %		18.5 ± 3.0		17.5 ± 3.0		17.4 ± 3.0	
	RDW-SD fL		52.5 ± 8.0		55.5 ± 8.0		59.0 ± 8.0	
	PLT x $10^9/L$		54 ± 24		244 ± 45		468 ± 70	
	MPV fL		9.5 ± 3.0		10.3 ± 3.0		10.6 ± 3.0	
	PCT % *		0.050 ± 0.050		0.290 ± 0.100		0.530 ± 0.200	
	PDW fL *		16.4 ± 3.0		16.6 ± 3.0		16.8 ± 3.0	
	P-LCC x $10^9/L$ **		15 ± 15		84 ± 25		160 ± 35	
	P-LCR % **		27.0 ± 10.0		31.5 ± 10.0		33.0 ± 10.0	

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

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