

# BC-5D

## HEMATOLOGY CONTROLS

**CONTROL**

## ASSAY VALUES AND EXPECTED RANGES

LOT

**BC409****2014-11-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC409L	LOT	BC409N	LOT	BC409H	
<b>BC-5800, BC-5600</b> QC Mode	WBC x 10 <sup>9</sup> /L		3.66 ± 0.50		8.31 ± 1.00		18.62 ± 2.50	
	Neu x 10 <sup>9</sup> /L		1.66 ± 0.35		4.33 ± 0.70		11.52 ± 1.55	
	Lym x 10 <sup>9</sup> /L		1.38 ± 0.35		2.45 ± 0.70		3.69 ± 1.35	
	Mon x 10 <sup>9</sup> /L		0.36 ± 0.30		0.82 ± 0.60		1.69 ± 1.35	
	Eos x 10 <sup>9</sup> /L		0.16 ± 0.15		0.61 ± 0.45		1.62 ± 1.15	
	Bas x 10 <sup>9</sup> /L		0.10 ± 0.10		0.10 ± 0.10		0.10 ± 0.10	
	Neu %		47.3 ± 9.0		52.3 ± 8.0		61.4 ± 8.0	
	Lym %		37.7 ± 9.0		29.5 ± 8.0		19.8 ± 7.0	
	Mon %		9.7 ± 7.0		9.9 ± 7.0		9.1 ± 7.0	
	Eos %		4.3 ± 4.0		7.3 ± 5.0		8.7 ± 6.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.45 ± 0.18		4.69 ± 0.24		5.45 ± 0.30	
	HGB g/L		61 ± 4		134 ± 6		167 ± 8	
	HCT %		18.7 ± 1.5		40.8 ± 2.0		51.5 ± 2.4	
	MCV fL		76.3 ± 5.0		87.1 ± 5.0		94.5 ± 5.0	
	MCH pg		24.9 ± 2.5		28.6 ± 2.5		30.6 ± 2.5	
	MCHC g/L		326 ± 30		328 ± 30		324 ± 30	
	RDW-CV %		16.9 ± 3.0		14.2 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		49.0 ± 8.0		46.1 ± 8.0		50.1 ± 8.0	
	PLT x 10 <sup>9</sup> /L		51 ± 20		274 ± 40		528 ± 60	
	MPV fL		7.9 ± 3.0		8.6 ± 3.0		8.8 ± 3.0	
PCT % *		0.040 ± 0.040		0.236 ± 0.100		0.465 ± 0.200		
PDW fL *		16.1 ± 3.0		16.0 ± 3.0		16.1 ± 3.0		
P-LCC x 10 <sup>9</sup> /L		12 ± 9		74 ± 15		149 ± 25		
P-LCR %		23.1 ± 10.0		27.1 ± 10.0		28.3 ± 10.0		
<b>BC-5500, BC-5200</b> QC Mode	WBC 10 <sup>9</sup> /L		3.58 ± 0.50		8.23 ± 1.00		18.09 ± 2.50	
	Neu x 10 <sup>9</sup> /L		1.58 ± 0.35		4.24 ± 0.70		11.04 ± 1.50	
	Lym x 10 <sup>9</sup> /L		1.40 ± 0.35		2.49 ± 0.70		3.71 ± 1.30	
	Mon x 10 <sup>9</sup> /L		0.35 ± 0.30		0.86 ± 0.70		1.70 ± 1.30	
	Eos x 10 <sup>9</sup> /L		0.15 ± 0.15		0.54 ± 0.45		1.54 ± 1.10	
	Bas x 10 <sup>9</sup> /L		0.10 ± 0.10		0.10 ± 0.10		0.10 ± 0.10	
	Neu %		45.8 ± 9.0		51.8 ± 8.0		60.6 ± 8.0	
	Lym %		39.2 ± 9.0		30.2 ± 8.0		20.5 ± 7.0	
	Mon %		9.9 ± 8.0		10.4 ± 8.0		9.4 ± 7.0	
	Eos %		4.1 ± 4.0		6.6 ± 5.0		8.5 ± 6.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.44 ± 0.18		4.60 ± 0.24		5.27 ± 0.30	
	HGB g/L		61 ± 4		135 ± 6		170 ± 8	
	HCT %		17.6 ± 1.5		37.9 ± 2.0		47.3 ± 2.4	
	MCV fL		72.2 ± 5.0		82.3 ± 5.0		89.8 ± 5.0	
	MCH pg		25.0 ± 2.5		29.3 ± 2.5		32.3 ± 2.5	
	MCHC g/L		346 ± 30		357 ± 30		359 ± 30	
	RDW-CV %		12.1 ± 3.0		11.2 ± 3.0		11.2 ± 3.0	
	RDW-SD fL		29.1 ± 8.0		31.4 ± 8.0		38.2 ± 8.0	
	PLT x 10 <sup>9</sup> /L		50 ± 20		266 ± 40		510 ± 60	
	MPV fL		8.4 ± 3.0		9.3 ± 3.0		9.5 ± 3.0	
PCT % *		0.042 ± 0.042		0.247 ± 0.100		0.485 ± 0.200		
PDW fL *		16.2 ± 3.0		16.2 ± 3.0		16.3 ± 3.0		

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

<b>LOT</b>
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Instrument	Parameter	Low		Normal		High		++
		LOT	BC409L	LOT	BC409N	LOT	BC409H	
<b>BC-5300, BC-5100</b>	WBC $10^9/L$		3.50 ± 0.50		8.25 ± 1.00		18.30 ± 2.50	
<b>QC Mode</b>	Neu x $10^9/L$		1.73 ± 0.35		4.59 ± 0.70		11.78 ± 1.50	
	Lym x $10^9/L$		1.33 ± 0.35		2.36 ± 0.70		3.40 ± 1.30	
	Mon x $10^9/L$		0.28 ± 0.25		0.71 ± 0.50		1.45 ± 1.10	
	Eos x $10^9/L$		0.16 ± 0.15		0.59 ± 0.45		1.67 ± 1.30	
	Bas x $10^9/L$		1.83 ± 0.30		5.36 ± 0.70		14.07 ± 1.50	
	Neu %		49.5 ± 9.0		55.6 ± 8.0		64.4 ± 8.0	
	Lym %		38.0 ± 9.0		28.6 ± 8.0		18.6 ± 7.0	
	Mon %		7.9 ± 6.0		8.6 ± 6.0		7.9 ± 6.0	
	Eos %		4.6 ± 4.0		7.2 ± 5.0		9.1 ± 7.0	
	Bas %		52.4 ± 8.0		65.0 ± 8.0		76.9 ± 8.0	
	RBC x $10^{12}/L$		2.34 ± 0.18		4.56 ± 0.24		5.30 ± 0.30	
	HGB g/L		60 ± 4		134 ± 6		168 ± 8	
	HCT %		18.7 ± 1.5		41.5 ± 2.0		50.9 ± 2.4	
	MCV fL		79.9 ± 5.0		91.1 ± 5.0		96.0 ± 5.0	
	MCH pg		25.6 ± 2.5		29.4 ± 2.5		31.7 ± 2.5	
	MCHC g/L		321 ± 30		323 ± 30		330 ± 30	
	RDW-CV %		16.5 ± 3.0		14.3 ± 3.0		13.8 ± 3.0	
	RDW-SD fL		56.4 ± 8.0		53.8 ± 8.0		57.0 ± 8.0	
	PLT x $10^9/L$		45 ± 20		253 ± 40		502 ± 60	
	MPV fL		8.5 ± 3.0		9.0 ± 3.0		9.2 ± 3.0	
	PCT % *		0.038 ± 0.038		0.228 ± 0.100		0.462 ± 0.200	
	PDW fL *		15.7 ± 3.0		16.0 ± 3.0		16.2 ± 3.0	
<b>BC-5380, BC-5180</b>	WBC $10^9/L$		3.55 ± 0.50		8.29 ± 1.00		18.18 ± 2.50	
<b>QC Mode</b>	Neu x $10^9/L$		1.79 ± 0.35		4.63 ± 0.70		11.72 ± 1.50	
	Lym x $10^9/L$		1.32 ± 0.35		2.39 ± 0.70		3.35 ± 1.30	
	Mon x $10^9/L$		0.29 ± 0.25		0.69 ± 0.60		1.42 ± 1.15	
	Eos x $10^9/L$		0.15 ± 0.15		0.58 ± 0.45		1.69 ± 1.30	
	Bas x $10^9/L$		1.89 ± 0.30		5.42 ± 0.70		14.11 ± 1.50	
	Neu %		50.2 ± 9.0		55.9 ± 8.0		64.5 ± 8.0	
	Lym %		37.3 ± 9.0		28.8 ± 8.0		18.4 ± 7.0	
	Mon %		8.2 ± 6.0		8.3 ± 7.0		7.8 ± 6.0	
	Eos %		4.3 ± 4.0		7.0 ± 5.0		9.3 ± 7.0	
	Bas %		53.1 ± 8.0		65.4 ± 8.0		77.6 ± 8.0	
	RBC x $10^{12}/L$		2.38 ± 0.18		4.60 ± 0.24		5.24 ± 0.30	
	HGB g/L		60 ± 4		132 ± 6		165 ± 8	
	HCT %		19.0 ± 1.5		41.7 ± 2.0		50.1 ± 2.4	
	MCV fL		79.8 ± 5.0		90.6 ± 5.0		95.6 ± 5.0	
	MCH pg		25.2 ± 2.5		28.7 ± 2.5		31.5 ± 2.5	
	MCHC g/L		316 ± 30		317 ± 30		329 ± 30	
	RDW-CV %		15.7 ± 3.0		13.6 ± 3.0		13.2 ± 3.0	
	RDW-SD fL		55.4 ± 8.0		54.0 ± 8.0		57.4 ± 8.0	
	PLT x $10^9/L$		46 ± 20		259 ± 40		500 ± 60	
	MPV fL		9.0 ± 3.0		9.3 ± 3.0		9.3 ± 3.0	
	PCT % *		0.041 ± 0.041		0.241 ± 0.100		0.465 ± 0.200	
	PDW fL *		15.8 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	

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<b>LOT</b>
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		LOT	BC409L	LOT	BC409N	LOT	BC409H	
<b>BC-5300Vet, BC-5100Vet QC Mode</b>	WBC $10^9/L$		3.50 ± 0.50		8.25 ± 1.00		18.30 ± 2.50	
	Neu x $10^9/L$		1.73 ± 0.35		4.59 ± 0.70		11.78 ± 1.50	
	Lym x $10^9/L$		1.33 ± 0.35		2.36 ± 0.70		3.40 ± 1.30	
	Mon x $10^9/L$		0.28 ± 0.25		0.71 ± 0.50		1.45 ± 1.10	
	Eos x $10^9/L$		0.16 ± 0.15		0.59 ± 0.45		1.67 ± 1.30	
	Neu %		49.5 ± 9.0		55.6 ± 8.0		64.4 ± 8.0	
	Lym %		38.0 ± 9.0		28.6 ± 8.0		18.6 ± 7.0	
	Mon %		7.9 ± 6.0		8.6 ± 6.0		7.9 ± 6.0	
	Eos %		4.6 ± 4.0		7.2 ± 5.0		9.1 ± 7.0	
	RBC x $10^{12}/L$		2.34 ± 0.18		4.56 ± 0.24		5.30 ± 0.30	
	HGB g/L		60 ± 4		134 ± 6		168 ± 8	
	HCT %		18.7 ± 1.5		41.5 ± 2.0		50.9 ± 2.4	
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	RDW-CV %		16.5 ± 3.0		14.3 ± 3.0		13.8 ± 3.0	
	RDW-SD fL		56.4 ± 8.0		53.8 ± 8.0		57.0 ± 8.0	
	PLT x $10^9/L$		45 ± 20		253 ± 40		502 ± 60	
	MPV fL		8.5 ± 3.0		9.0 ± 3.0		9.2 ± 3.0	
	PCT % *		0.038 ± 0.038		0.228 ± 0.100		0.462 ± 0.200	
PDW fL *		15.7 ± 3.0		16.0 ± 3.0		16.2 ± 3.0		

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