

# BC-5D

## HEMATOLOGY CONTROLS

**CONTROL**

## ASSAY VALUES AND EXPECTED RANGES

LOT

BC403



2014-05-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC403L	LOT	BC403N	LOT	BC403H	
<b>BC-5800, BC-5600</b>	WBC x 10 <sup>9</sup> /L		3.40 ± 0.50		7.84 ± 1.00		17.92 ± 2.50	
<b>QC Mode</b>	Neu x 10 <sup>9</sup> /L		1.51 ± 0.35		4.05 ± 0.65		10.69 ± 1.50	
	Lym x 10 <sup>9</sup> /L		1.26 ± 0.35		2.31 ± 0.65		3.69 ± 1.30	
	Mon x 10 <sup>9</sup> /L		0.36 ± 0.25		0.78 ± 0.60		1.79 ± 1.30	
	Eos x 10 <sup>9</sup> /L		0.17 ± 0.15		0.60 ± 0.40		1.65 ± 1.10	
	Bas x 10 <sup>9</sup> /L		0.10 ± 0.10		0.10 ± 0.10		0.10 ± 0.10	
	Neu %		46.4 ± 9.0		51.9 ± 8.0		59.2 ± 8.0	
	Lym %		37.1 ± 9.0		29.5 ± 8.0		20.6 ± 7.0	
	Mon %		10.6 ± 7.0		10.0 ± 7.0		10.0 ± 7.0	
	Eos %		4.9 ± 4.0		7.6 ± 5.0		9.2 ± 6.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.40 ± 0.18		4.77 ± 0.24		5.34 ± 0.30	
	HGB g/L		60 ± 4		134 ± 6		169 ± 8	
	HCT %		18.0 ± 1.5		40.9 ± 2.0		51.6 ± 2.4	
	MCV fL		74.8 ± 5.0		85.8 ± 5.0		96.6 ± 5.0	
	MCH pg		25.0 ± 2.5		28.1 ± 2.5		31.6 ± 2.5	
	MCHC g/L		334 ± 30		327 ± 30		328 ± 30	
	RDW-CV %		15.8 ± 3.0		14.8 ± 3.0		14.2 ± 3.0	
	RDW-SD fL		44.7 ± 8.0		47.1 ± 8.0		50.3 ± 8.0	
	PLT x 10 <sup>9</sup> /L		52 ± 20		262 ± 40		548 ± 60	
	MPV fL		8.1 ± 3.0		8.3 ± 3.0		8.5 ± 3.0	
	PCT % *		0.042 ± 0.042		0.217 ± 0.100		0.466 ± 0.200	
	PDW fL *		16.0 ± 3.0		16.0 ± 3.0		16.0 ± 3.0	
	P-LCC x 10 <sup>9</sup> /L		12 ± 9		64 ± 15		141 ± 25	
	P-LCR %		23.8 ± 10.0		24.6 ± 10.0		25.8 ± 10.0	
<b>BC-5500, BC-5200</b>	WBC 10 <sup>9</sup> /L		3.36 ± 0.50		7.81 ± 1.00		17.61 ± 2.50	
<b>QC Mode</b>	Neu x 10 <sup>9</sup> /L		1.44 ± 0.30		4.02 ± 0.65		10.45 ± 1.45	
	Lym x 10 <sup>9</sup> /L		1.27 ± 0.30		2.37 ± 0.65		3.75 ± 1.25	
	Mon x 10 <sup>9</sup> /L		0.37 ± 0.25		0.81 ± 0.55		1.81 ± 1.25	
	Eos x 10 <sup>9</sup> /L		0.18 ± 0.15		0.51 ± 0.40		1.50 ± 1.10	
	Bas x 10 <sup>9</sup> /L		0.10 ± 0.10		0.10 ± 0.10		0.10 ± 0.10	
	Neu %		45.0 ± 9.0		51.7 ± 8.0		58.9 ± 8.0	
	Lym %		37.7 ± 9.0		30.4 ± 8.0		21.3 ± 7.0	
	Mon %		10.9 ± 7.0		10.4 ± 7.0		10.3 ± 7.0	
	Eos %		5.4 ± 4.0		6.5 ± 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		2.43 ± 0.18		4.72 ± 0.24		5.22 ± 0.30	
	HGB g/L		60 ± 4		137 ± 6		171 ± 8	
	HCT %		17.2 ± 1.5		38.3 ± 2.0		47.6 ± 2.4	
	MCV fL		70.6 ± 5.0		81.1 ± 5.0		91.2 ± 5.0	
	MCH pg		24.7 ± 2.5		29.0 ± 2.5		32.8 ± 2.5	
	MCHC g/L		350 ± 30		358 ± 30		359 ± 30	
	RDW-CV %		12.1 ± 3.0		11.6 ± 3.0		11.2 ± 3.0	
	RDW-SD fL		27.4 ± 8.0		33.8 ± 8.0		39.1 ± 8.0	
	PLT x 10 <sup>9</sup> /L		52 ± 20		252 ± 40		526 ± 60	
	MPV fL		8.5 ± 3.0		9.0 ± 3.0		9.2 ± 3.0	
	PCT % *		0.044 ± 0.044		0.227 ± 0.100		0.484 ± 0.200	
	PDW fL *		16.1 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	

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**2014-05-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC403L	LOT	BC403N	LOT	BC403H	
<b>BC-5300, BC-5100</b>	WBC $10^9/L$		3.27 ± 0.50		7.83 ± 1.00		17.56 ± 2.50	
<b>QC Mode</b>	Neu x $10^9/L$		1.61 ± 0.30		4.42 ± 0.65		11.33 ± 1.45	
	Lym x $10^9/L$		1.21 ± 0.30		2.23 ± 0.65		3.35 ± 1.25	
	Mon x $10^9/L$		0.28 ± 0.20		0.70 ± 0.50		1.56 ± 1.10	
	Eos x $10^9/L$		0.17 ± 0.15		0.48 ± 0.40		1.32 ± 1.10	
	Bas x $10^9/L$		1.58 ± 0.30		5.00 ± 0.65		13.19 ± 1.45	
	Neu %		49.3 ± 9.0		56.5 ± 8.0		64.5 ± 8.0	
	Lym %		36.9 ± 9.0		28.5 ± 8.0		19.1 ± 7.0	
	Mon %		8.6 ± 6.0		8.9 ± 6.0		8.9 ± 6.0	
	Eos %		5.2 ± 4.0		6.1 ± 5.0		7.5 ± 6.0	
	Bas %		48.3 ± 8.0		63.9 ± 8.0		75.1 ± 8.0	
	RBC x $10^{12}/L$		2.32 ± 0.18		4.67 ± 0.24		5.23 ± 0.30	
	HGB g/L		58 ± 4		134 ± 6		169 ± 8	
	HCT %		18.2 ± 1.5		41.4 ± 2.0		51.8 ± 2.4	
	MCV fL		78.5 ± 5.0		88.7 ± 5.0		99.0 ± 5.0	
	MCH pg		25.0 ± 2.5		28.7 ± 2.5		32.3 ± 2.5	
	MCHC g/L		318 ± 30		323 ± 30		326 ± 30	
	RDW-CV %		15.5 ± 3.0		14.8 ± 3.0		14.3 ± 3.0	
	RDW-SD fL		51.5 ± 8.0		55.3 ± 8.0		58.5 ± 8.0	
	PLT x $10^9/L$		45 ± 20		241 ± 40		507 ± 60	
	MPV fL		8.7 ± 3.0		8.8 ± 3.0		8.8 ± 3.0	
	PCT % *		0.039 ± 0.039		0.212 ± 0.100		0.446 ± 0.200	
	PDW fL *		15.8 ± 3.0		16.0 ± 3.0		16.1 ± 3.0	
<b>BC-5380, BC-5180</b>	WBC $10^9/L$		3.29 ± 0.50		7.82 ± 1.00		17.33 ± 2.50	
<b>QC Mode</b>	Neu x $10^9/L$		1.63 ± 0.30		4.40 ± 0.65		11.09 ± 1.40	
	Lym x $10^9/L$		1.21 ± 0.30		2.26 ± 0.65		3.36 ± 1.25	
	Mon x $10^9/L$		0.29 ± 0.20		0.69 ± 0.50		1.49 ± 1.05	
	Eos x $10^9/L$		0.16 ± 0.15		0.47 ± 0.40		1.39 ± 1.05	
	Bas x $10^9/L$		1.60 ± 0.30		5.05 ± 0.65		13.05 ± 1.40	
	Neu %		49.8 ± 9.0		56.3 ± 8.0		64.0 ± 8.0	
	Lym %		36.7 ± 9.0		28.9 ± 8.0		19.4 ± 7.0	
	Mon %		8.7 ± 6.0		8.8 ± 6.0		8.6 ± 6.0	
	Eos %		4.8 ± 4.0		6.0 ± 5.0		8.0 ± 6.0	
	Bas %		48.7 ± 8.0		64.6 ± 8.0		75.3 ± 8.0	
	RBC x $10^{12}/L$		2.37 ± 0.18		4.68 ± 0.24		5.21 ± 0.30	
	HGB g/L		59 ± 4		133 ± 6		167 ± 8	
	HCT %		18.6 ± 1.5		41.7 ± 2.0		51.7 ± 2.4	
	MCV fL		78.3 ± 5.0		89.0 ± 5.0		99.2 ± 5.0	
	MCH pg		24.9 ± 2.5		28.4 ± 2.5		32.1 ± 2.5	
	MCHC g/L		318 ± 30		319 ± 30		323 ± 30	
	RDW-CV %		14.7 ± 3.0		14.1 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		50.5 ± 8.0		53.5 ± 8.0		56.2 ± 8.0	
	PLT x $10^9/L$		46 ± 20		240 ± 40		508 ± 60	
	MPV fL		9.0 ± 3.0		8.9 ± 3.0		9.0 ± 3.0	
	PCT % *		0.041 ± 0.041		0.214 ± 0.100		0.457 ± 0.200	
	PDW fL *		15.8 ± 3.0		16.0 ± 3.0		16.1 ± 3.0	

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**BC403**  
**2014-05-10**

Instrument	Parameter	Low	Normal	High	+++
		LOT BC403L	LOT BC403N	LOT BC403H	
<b>BC-5300Vet, BC-5100Vet</b> <b>QC Mode</b>	WBC $10^9/L$	3.27 ± 0.50	7.83 ± 1.00	17.56 ± 2.50	
	Neu x $10^9/L$	1.61 ± 0.30	4.42 ± 0.65	11.33 ± 1.45	
	Lym x $10^9/L$	1.21 ± 0.30	2.23 ± 0.65	3.35 ± 1.25	
	Mon x $10^9/L$	0.28 ± 0.20	0.70 ± 0.50	1.56 ± 1.10	
	Eos x $10^9/L$	0.17 ± 0.15	0.48 ± 0.40	1.32 ± 1.10	
	Neu %	49.3 ± 9.0	56.5 ± 8.0	64.5 ± 8.0	
	Lym %	36.9 ± 9.0	28.5 ± 8.0	19.1 ± 7.0	
	Mon %	8.6 ± 6.0	8.9 ± 6.0	8.9 ± 6.0	
	Eos %	5.2 ± 4.0	6.1 ± 5.0	7.5 ± 6.0	
	RBC x $10^{12}/L$	2.32 ± 0.18	4.67 ± 0.24	5.23 ± 0.30	
	HGB g/L	58 ± 4	134 ± 6	169 ± 8	
	HCT %	18.2 ± 1.5	41.4 ± 2.0	51.8 ± 2.4	
	MCV fL	78.5 ± 5.0	88.7 ± 5.0	99.0 ± 5.0	
	MCH pg	25.0 ± 2.5	28.7 ± 2.5	32.3 ± 2.5	
	MCHC g/L	318 ± 30	323 ± 30	326 ± 30	
	RDW-CV %	15.5 ± 3.0	14.8 ± 3.0	14.3 ± 3.0	
	RDW-SD fL	51.5 ± 8.0	55.3 ± 8.0	58.5 ± 8.0	
	PLT x $10^9/L$	45 ± 20	241 ± 40	507 ± 60	
	MPV fL	8.7 ± 3.0	8.8 ± 3.0	8.8 ± 3.0	
	PCT % *	0.039 ± 0.039	0.212 ± 0.100	0.446 ± 0.200	
PDW fL *	15.8 ± 3.0	16.0 ± 3.0	16.1 ± 3.0		

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