

**BC-5D****HEMATOLOGY CONTROLS****CONTROL**

## ASSAY VALUES AND EXPECTED RANGES

**LOT****BC405****2014-07-10**

Instrument	Parameter	Low		Normal		High		+
		<b>LOT</b>	BC405L	<b>LOT</b>	BC405N	<b>LOT</b>	BC405H	
<b>BC-5800, BC-5600</b>	WBC x 10 <sup>9</sup> /L		3.46 ± 0.50		7.97 ± 1.00		18.11 ± 2.50	
<b>QC Mode</b>	Neu x 10 <sup>9</sup> /L		1.50 ± 0.35		4.29 ± 0.65		10.93 ± 1.50	
	Lym x 10 <sup>9</sup> /L		1.35 ± 0.35		2.32 ± 0.65		3.68 ± 1.30	
	Mon x 10 <sup>9</sup> /L		0.34 ± 0.25		0.74 ± 0.60		1.72 ± 1.30	
	Eos x 10 <sup>9</sup> /L		0.17 ± 0.15		0.52 ± 0.45		1.68 ± 1.30	
	Bas x 10 <sup>9</sup> /L		0.10 ± 0.10		0.10 ± 0.10		0.10 ± 0.10	
	Neu %		45.5 ± 9.0		54.1 ± 8.0		59.9 ± 8.0	
	Lym %		38.9 ± 9.0		29.1 ± 8.0		20.3 ± 7.0	
	Mon %		9.7 ± 7.0		9.3 ± 7.0		9.5 ± 7.0	
	Eos %		4.9 ± 4.0		6.5 ± 5.0		9.3 ± 7.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.49 ± 0.18		4.57 ± 0.24		5.40 ± 0.30	
	HGB g/L		60 ± 4		133 ± 6		166 ± 8	
	HCT %		18.7 ± 1.5		40.7 ± 2.0		51.8 ± 2.4	
	MCV fL		74.9 ± 5.0		89.1 ± 5.0		96.0 ± 5.0	
	MCH pg		24.1 ± 2.5		29.1 ± 2.5		30.7 ± 2.5	
	MCHC g/L		322 ± 30		327 ± 30		320 ± 30	
	RDW-CV %		16.2 ± 3.0		15.3 ± 3.0		14.3 ± 3.0	
	RDW-SD fL		47.2 ± 8.0		49.0 ± 8.0		52.3 ± 8.0	
	PLT x 10 <sup>9</sup> /L		49 ± 20		255 ± 40		518 ± 60	
	MPV fL		8.0 ± 3.0		8.4 ± 3.0		8.6 ± 3.0	
	PCT % *		0.039 ± 0.039		0.214 ± 0.100		0.445 ± 0.200	
	PDW fL *		16.2 ± 3.0		16.0 ± 3.0		15.9 ± 3.0	
	P-LCC x 10 <sup>9</sup> /L		12 ± 9		64 ± 15		136 ± 25	
	P-LCR %		24.5 ± 10.0		25.2 ± 10.0		26.3 ± 10.0	
<b>BC-5500, BC-5200</b>	WBC 10 <sup>9</sup> /L		3.38 ± 0.50		7.87 ± 1.00		17.53 ± 2.50	
<b>QC Mode</b>	Neu x 10 <sup>9</sup> /L		1.46 ± 0.35		4.17 ± 0.65		10.54 ± 1.45	
	Lym x 10 <sup>9</sup> /L		1.33 ± 0.35		2.33 ± 0.65		3.61 ± 1.25	
	Mon x 10 <sup>9</sup> /L		0.33 ± 0.25		0.76 ± 0.60		1.68 ± 1.25	
	Eos x 10 <sup>9</sup> /L		0.16 ± 0.15		0.51 ± 0.40		1.60 ± 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		53.3 ± 8.0		59.7 ± 8.0	
	Lym %		39.4 ± 9.0		29.6 ± 8.0		20.6 ± 7.0	
	Mon %		9.8 ± 7.0		9.6 ± 7.0		9.6 ± 7.0	
	Eos %		4.8 ± 4.0		6.5 ± 5.0		9.1 ± 6.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 <sup>12</sup> /L		2.47 ± 0.18		4.50 ± 0.24		5.27 ± 0.30	
	HGB g/L		60 ± 4		134 ± 6		168 ± 8	
	HCT %		17.6 ± 1.5		38.3 ± 2.0		48.3 ± 2.4	
	MCV fL		71.2 ± 5.0		85.2 ± 5.0		91.6 ± 5.0	
	MCH pg		24.3 ± 2.5		29.8 ± 2.5		31.9 ± 2.5	
	MCHC g/L		341 ± 30		350 ± 30		348 ± 30	
	RDW-CV %		12.1 ± 3.0		11.6 ± 3.0		11.2 ± 3.0	
	RDW-SD fL		29.4 ± 8.0		36.3 ± 8.0		39.2 ± 8.0	
	PLT x 10 <sup>9</sup> /L		50 ± 20		254 ± 40		512 ± 60	
	MPV fL		8.4 ± 3.0		9.0 ± 3.0		9.3 ± 3.0	
	PCT % *		0.042 ± 0.042		0.229 ± 0.100		0.476 ± 0.200	
	PDW fL *		16.2 ± 3.0		16.3 ± 3.0		16.2 ± 3.0	

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		<b>LOT</b> BC405L	<b>LOT</b> BC405N	<b>LOT</b> BC405H	
<b>BC-5300, BC-5100</b> <b>QC Mode</b>	WBC 10 <sup>9</sup> /L	3.35 ± 0.50	7.96 ± 1.00	17.68 ± 2.50	
	Neu x 10 <sup>9</sup> /L	1.64 ± 0.35	4.55 ± 0.65	11.15 ± 1.45	
	Lym x 10 <sup>9</sup> /L	1.28 ± 0.35	2.21 ± 0.65	3.34 ± 1.25	
	Mon x 10 <sup>9</sup> /L	0.27 ± 0.25	0.65 ± 0.50	1.49 ± 1.10	
	Eos x 10 <sup>9</sup> /L	0.16 ± 0.15	0.55 ± 0.45	1.70 ± 1.25	
	Bas x 10 <sup>9</sup> /L	1.73 ± 0.30	5.10 ± 0.65	13.49 ± 1.25	
	Neu %	48.8 ± 9.0	57.1 ± 8.0	63.1 ± 8.0	
	Lym %	38.1 ± 9.0	27.8 ± 8.0	18.9 ± 7.0	
	Mon %	8.2 ± 6.0	8.2 ± 6.0	8.4 ± 6.0	
	Eos %	4.9 ± 4.0	6.9 ± 5.0	9.6 ± 7.0	
	Bas %	51.6 ± 8.0	64.1 ± 8.0	76.3 ± 7.0	
	RBC x 10 <sup>12</sup> /L	2.40 ± 0.18	4.48 ± 0.24	5.31 ± 0.30	
	HGB g/L	59 ± 4	134 ± 6	169 ± 8	
	HCT %	18.7 ± 1.5	40.6 ± 2.0	52.3 ± 2.4	
	MCV fL	77.9 ± 5.0	90.6 ± 5.0	98.5 ± 5.0	
	MCH pg	24.6 ± 2.5	29.9 ± 2.5	31.8 ± 2.5	
	MCHC g/L	316 ± 30	330 ± 30	323 ± 30	
	RDW-CV %	16.0 ± 3.0	14.8 ± 3.0	14.3 ± 3.0	
	RDW-SD fL	52.9 ± 8.0	55.3 ± 8.0	58.8 ± 8.0	
	PLT x 10 <sup>9</sup> /L	44 ± 20	244 ± 40	497 ± 60	
MPV fL	8.5 ± 3.0	8.9 ± 3.0	8.9 ± 3.0		
PCT % *	0.037 ± 0.037	0.217 ± 0.100	0.442 ± 0.200		
PDW fL *	15.7 ± 3.0	16.1 ± 3.0	16.1 ± 3.0		
<b>BC-5380, BC-5180</b> <b>QC Mode</b>	WBC 10 <sup>9</sup> /L	3.38 ± 0.50	7.96 ± 1.00	17.58 ± 2.50	
	Neu x 10 <sup>9</sup> /L	1.66 ± 0.35	4.54 ± 0.65	11.08 ± 1.45	
	Lym x 10 <sup>9</sup> /L	1.28 ± 0.35	2.24 ± 0.65	3.32 ± 1.25	
	Mon x 10 <sup>9</sup> /L	0.27 ± 0.25	0.64 ± 0.50	1.46 ± 1.10	
	Eos x 10 <sup>9</sup> /L	0.17 ± 0.15	0.54 ± 0.40	1.72 ± 1.25	
	Bas x 10 <sup>9</sup> /L	1.76 ± 0.30	5.17 ± 0.65	13.52 ± 1.45	
	Neu %	49.0 ± 9.0	57.1 ± 8.0	63.0 ± 8.0	
	Lym %	38.0 ± 9.0	28.1 ± 8.0	18.9 ± 7.0	
	Mon %	8.1 ± 6.0	8.0 ± 6.0	8.3 ± 6.0	
	Eos %	4.9 ± 4.0	6.8 ± 5.0	9.8 ± 7.0	
	Bas %	52.0 ± 8.0	64.9 ± 8.0	76.9 ± 8.0	
	RBC x 10 <sup>12</sup> /L	2.43 ± 0.18	4.49 ± 0.24	5.31 ± 0.30	
	HGB g/L	59 ± 4	133 ± 6	167 ± 8	
	HCT %	18.8 ± 1.5	40.5 ± 2.0	51.5 ± 2.4	
	MCV fL	77.3 ± 5.0	90.1 ± 5.0	97.0 ± 5.0	
	MCH pg	24.3 ± 2.5	29.6 ± 2.5	31.5 ± 2.5	
	MCHC g/L	314 ± 30	329 ± 30	324 ± 30	
	RDW-CV %	15.2 ± 3.0	14.2 ± 3.0	13.7 ± 3.0	
	RDW-SD fL	52.5 ± 8.0	55.4 ± 8.0	57.4 ± 8.0	
	PLT x 10 <sup>9</sup> /L	45 ± 20	245 ± 40	500 ± 60	
MPV fL	8.8 ± 3.0	9.0 ± 3.0	9.0 ± 3.0		
PCT % *	0.040 ± 0.040	0.221 ± 0.100	0.450 ± 0.200		
PDW fL *	15.8 ± 3.0	16.1 ± 3.0	16.1 ± 3.0		

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		<b>LOT</b>	BC405L	<b>LOT</b>	BC405N	<b>LOT</b>	BC405H	
<b>BC-5300Vet, BC-5100Vet</b>	WBC $10^9/L$		3.35 ± 0.50		7.96 ± 1.00		17.68 ± 2.50	
<b>QC Mode</b>	Neu x $10^9/L$		1.64 ± 0.35		4.55 ± 0.65		11.15 ± 1.45	
	Lym x $10^9/L$		1.28 ± 0.35		2.21 ± 0.65		3.34 ± 1.25	
	Mon x $10^9/L$		0.27 ± 0.25		0.65 ± 0.50		1.49 ± 1.10	
	Eos x $10^9/L$		0.16 ± 0.15		0.55 ± 0.45		1.70 ± 1.25	
	Neu %		48.8 ± 9.0		57.1 ± 8.0		63.1 ± 8.0	
	Lym %		38.1 ± 9.0		27.8 ± 8.0		18.9 ± 7.0	
	Mon %		8.2 ± 6.0		8.2 ± 6.0		8.4 ± 6.0	
	Eos %		4.9 ± 4.0		6.9 ± 5.0		9.6 ± 7.0	
	RBC x $10^{12}/L$		2.40 ± 0.18		4.48 ± 0.24		5.31 ± 0.30	
	HGB g/L		59 ± 4		134 ± 6		169 ± 8	
	HCT %		18.7 ± 1.5		40.6 ± 2.0		52.3 ± 2.4	
	MCV fL		77.9 ± 5.0		90.6 ± 5.0		98.5 ± 5.0	
	MCH pg		24.6 ± 2.5		29.9 ± 2.5		31.8 ± 2.5	
	MCHC g/L		316 ± 30		330 ± 30		323 ± 30	
	RDW-CV %		16.0 ± 3.0		14.8 ± 3.0		14.3 ± 3.0	
	RDW-SD fL		52.9 ± 8.0		55.3 ± 8.0		58.8 ± 8.0	
	PLT x $10^9/L$		44 ± 20		244 ± 40		497 ± 60	
	MPV fL		8.5 ± 3.0		8.9 ± 3.0		8.9 ± 3.0	
	PCT % *		0.037 ± 0.037		0.217 ± 0.100		0.442 ± 0.200	
	PDW fL *		15.7 ± 3.0		16.1 ± 3.0		16.1 ± 3.0	

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