

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC507**2015-09-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC507L	LOT	BC507N	LOT	BC507H	
BC-5800, BC-5600 QC Mode	WBC x 10 ⁹ /L		3.45 ± 0.50		8.00 ± 1.00		18.75 ± 2.50	
	Neu x 10 ⁹ /L		1.79 ± 0.35		4.60 ± 0.65		12.38 ± 1.50	
	Lym x 10 ⁹ /L		1.31 ± 0.35		2.36 ± 0.65		3.75 ± 1.35	
	Mon x 10 ⁹ /L		0.16 ± 0.13		0.36 ± 0.30		0.75 ± 0.70	
	Eos x 10 ⁹ /L		0.16 ± 0.13		0.60 ± 0.40		1.69 ± 1.35	
	Bas x 10 ⁹ /L		0.03 ± 0.03		0.08 ± 0.08		0.19 ± 0.19	
	Neu %		52.0 ± 9.0		57.5 ± 8.0		66.0 ± 8.0	
	Lym %		38.0 ± 9.0		29.5 ± 8.0		20.0 ± 7.0	
	Mon %		4.5 ± 3.5		4.5 ± 3.5		4.0 ± 3.5	
	Eos %		4.5 ± 3.5		7.5 ± 5.0		9.0 ± 7.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 ¹² /L		2.54 ± 0.18		4.56 ± 0.24		5.51 ± 0.30	
	HGB g/L		62 ± 4		131 ± 6		169 ± 8	
	HCT %		19.1 ± 1.5		39.7 ± 2.0		51.8 ± 2.4	
	MCV fL		75.0 ± 5.0		87.0 ± 5.0		94.0 ± 5.0	
	MCH pg		24.4 ± 2.5		28.7 ± 2.5		30.7 ± 2.5	
	MCHC g/L		325 ± 30		330 ± 30		326 ± 30	
	RDW-CV %		15.0 ± 3.0		14.4 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		43.0 ± 8.0		47.0 ± 8.0		48.0 ± 8.0	
	PLT x 10 ⁹ /L		52 ± 20		257 ± 40		486 ± 60	
	MPV fL		7.7 ± 3.0		8.4 ± 3.0		8.5 ± 3.0	
PCT % *		0.050 ± 0.050		0.220 ± 0.100		0.415 ± 0.200		
PDW fL *		16.7 ± 3.0		16.0 ± 3.0		16.0 ± 3.0		
P-LCC x 10 ⁹ /L		15 ± 9		68 ± 15		134 ± 25		
P-LCR %		23.5 ± 10.0		26.0 ± 10.0		27.0 ± 10.0		
BC-5500, BC-5200 QC Mode	WBC 10 ⁹ /L		3.40 ± 0.50		7.85 ± 1.00		18.15 ± 2.50	
	Neu x 10 ⁹ /L		1.67 ± 0.35		4.32 ± 0.65		11.34 ± 1.45	
	Lym x 10 ⁹ /L		1.33 ± 0.35		2.36 ± 0.65		3.72 ± 1.30	
	Mon x 10 ⁹ /L		0.22 ± 0.14		0.51 ± 0.35		1.27 ± 0.95	
	Eos x 10 ⁹ /L		0.15 ± 0.12		0.59 ± 0.40		1.63 ± 1.30	
	Bas x 10 ⁹ /L		0.03 ± 0.03		0.08 ± 0.08		0.18 ± 0.18	
	Neu %		49.0 ± 9.0		55.0 ± 8.0		62.5 ± 8.0	
	Lym %		39.0 ± 9.0		30.0 ± 8.0		20.5 ± 7.0	
	Mon %		6.5 ± 4.0		6.5 ± 4.0		7.0 ± 5.0	
	Eos %		4.5 ± 3.5		7.5 ± 5.0		9.0 ± 7.0	
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC x 10 ¹² /L		2.54 ± 0.18		4.52 ± 0.24		5.43 ± 0.30	
	HGB g/L		62 ± 4		132 ± 6		171 ± 8	
	HCT %		18.2 ± 1.5		37.7 ± 2.0		48.9 ± 2.4	
	MCV fL		71.5 ± 5.0		83.5 ± 5.0		90.0 ± 5.0	
	MCH pg		24.4 ± 2.5		29.2 ± 2.5		31.5 ± 2.5	
	MCHC g/L		341 ± 30		350 ± 30		350 ± 30	
	RDW-CV %		12.5 ± 3.0		12.5 ± 3.0		11.5 ± 3.0	
	RDW-SD fL		28.5 ± 8.0		33.5 ± 8.0		36.5 ± 8.0	
	PLT x 10 ⁹ /L		50 ± 20		248 ± 40		475 ± 60	
	MPV fL		8.5 ± 3.0		9.2 ± 3.0		9.5 ± 3.0	
PCT % *		0.050 ± 0.050		0.230 ± 0.100		0.450 ± 0.200		
PDW fL *		16.6 ± 3.0		16.2 ± 3.0		16.3 ± 3.0		

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC507L	LOT	BC507N	LOT	BC507H	
BC-5300, BC-5100 QC Mode	WBC $10^9/L$		3.45 \pm 0.50		8.00 \pm 1.00		18.40 \pm 2.50	
	Neu $\times 10^9/L$		1.86 \pm 0.35		4.92 \pm 0.75		12.97 \pm 1.50	
	Lym $\times 10^9/L$		1.31 \pm 0.35		2.32 \pm 0.65		3.40 \pm 1.30	
	Mon $\times 10^9/L$		0.14 \pm 0.14		0.32 \pm 0.32		0.64 \pm 0.64	
	Eos $\times 10^9/L$		0.14 \pm 0.14		0.44 \pm 0.44		1.38 \pm 1.15	
	Bas $\times 10^9/L$		1.44 \pm 0.30		4.79 \pm 0.65		13.51 \pm 1.50	
	Neu %		54.0 \pm 9.0		61.5 \pm 9.0		70.5 \pm 8.0	
	Lym %		38.0 \pm 9.0		29.0 \pm 8.0		18.5 \pm 7.0	
	Mon %		4.0 \pm 4.0		4.0 \pm 4.0		3.5 \pm 3.5	
	Eos %		4.0 \pm 4.0		5.5 \pm 5.5		7.5 \pm 6.0	
	Bas %		41.6 \pm 8.0		59.9 \pm 8.0		73.4 \pm 8.0	
	RBC $\times 10^{12}/L$		2.47 \pm 0.18		4.52 \pm 0.24		5.44 \pm 0.30	
	HGB g/L		61 \pm 4		131 \pm 6		170 \pm 8	
	HCT %		19.6 \pm 1.5		41.1 \pm 2.0		53.3 \pm 2.4	
	MCV fL		79.5 \pm 5.0		91.0 \pm 5.0		98.0 \pm 5.0	
	MCH pg		24.7 \pm 2.5		29.0 \pm 2.5		31.3 \pm 2.5	
	MCHC g/L		311 \pm 30		319 \pm 30		319 \pm 30	
	RDW-CV %		15.5 \pm 3.0		15.0 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		53.0 \pm 8.0		58.5 \pm 8.0		60.0 \pm 8.0	
	PLT $\times 10^9/L$		44 \pm 20		240 \pm 40		462 \pm 60	
MPV fL		9.3 \pm 3.0		9.5 \pm 3.0		9.5 \pm 3.0		
PCT % *		0.050 \pm 0.050		0.225 \pm 0.100		0.435 \pm 0.200		
PDW fL *		16.2 \pm 3.0		16.0 \pm 3.0		16.1 \pm 3.0		
BC-5380, BC-5180 QC Mode	WBC $10^9/L$		3.40 \pm 0.50		7.90 \pm 1.00		18.05 \pm 2.50	
	Neu $\times 10^9/L$		1.84 \pm 0.35		4.74 \pm 0.65		12.18 \pm 1.45	
	Lym $\times 10^9/L$		1.29 \pm 0.35		2.29 \pm 0.65		3.52 \pm 1.45	
	Mon $\times 10^9/L$		0.12 \pm 0.12		0.28 \pm 0.28		0.63 \pm 0.63	
	Eos $\times 10^9/L$		0.15 \pm 0.12		0.59 \pm 0.40		1.71 \pm 1.30	
	Bas $\times 10^9/L$		1.46 \pm 0.30		4.82 \pm 0.65		13.39 \pm 1.45	
	Neu %		54.0 \pm 9.0		60.0 \pm 8.0		67.5 \pm 8.0	
	Lym %		38.0 \pm 9.0		29.0 \pm 8.0		19.5 \pm 8.0	
	Mon %		3.5 \pm 3.5		3.5 \pm 3.5		3.5 \pm 3.5	
	Eos %		4.5 \pm 3.5		7.5 \pm 5.0		9.5 \pm 7.0	
	Bas %		42.9 \pm 8.0		61.0 \pm 8.0		74.2 \pm 8.0	
	RBC $\times 10^{12}/L$		2.48 \pm 0.18		4.52 \pm 0.24		5.35 \pm 0.30	
	HGB g/L		61 \pm 4		130 \pm 6		168 \pm 8	
	HCT %		19.3 \pm 1.5		40.7 \pm 2.0		51.9 \pm 2.4	
	MCV fL		78.0 \pm 5.0		90.0 \pm 5.0		97.0 \pm 5.0	
	MCH pg		24.6 \pm 2.5		28.8 \pm 2.5		31.4 \pm 2.5	
	MCHC g/L		315 \pm 30		320 \pm 30		324 \pm 30	
	RDW-CV %		15.0 \pm 3.0		14.5 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		51.5 \pm 8.0		56.5 \pm 8.0		57.5 \pm 8.0	
	PLT $\times 10^9/L$		46 \pm 20		239 \pm 40		460 \pm 60	
MPV fL		8.1 \pm 3.0		8.4 \pm 3.0		8.4 \pm 3.0		
PCT % *		0.050 \pm 0.050		0.200 \pm 0.100		0.375 \pm 0.200		
PDW fL *		16.0 \pm 3.0		16.0 \pm 3.0		16.2 \pm 3.0		

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LOT

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC507L	LOT	BC507N	LOT	BC507H	
BC-5300Vet, BC-5100Vet QC Mode	WBC $10^9/L$		3.45 ± 0.50		8.00 ± 1.00		18.40 ± 2.50	
	Neu x $10^9/L$		1.86 ± 0.35		4.92 ± 0.75		12.97 ± 1.50	
	Lym x $10^9/L$		1.31 ± 0.35		2.32 ± 0.65		3.40 ± 1.30	
	Mon x $10^9/L$		0.14 ± 0.14		0.32 ± 0.32		0.64 ± 0.64	
	Eos x $10^9/L$		0.14 ± 0.14		0.44 ± 0.44		1.38 ± 1.15	
	Neu %		54.0 ± 9.0		61.5 ± 9.0		70.5 ± 8.0	
	Lym %		38.0 ± 9.0		29.0 ± 8.0		18.5 ± 7.0	
	Mon %		4.0 ± 4.0		4.0 ± 4.0		3.5 ± 3.5	
	Eos %		4.0 ± 4.0		5.5 ± 5.5		7.5 ± 6.0	
	RBC x $10^{12}/L$		2.47 ± 0.18		4.52 ± 0.24		5.44 ± 0.30	
	HGB g/L		61 ± 4		131 ± 6		170 ± 8	
	HCT %		19.6 ± 1.5		41.1 ± 2.0		53.3 ± 2.4	
	MCV fL		79.5 ± 5.0		91.0 ± 5.0		98.0 ± 5.0	
	MCH pg		24.7 ± 2.5		29.0 ± 2.5		31.3 ± 2.5	
	MCHC g/L		311 ± 30		319 ± 30		319 ± 30	
	RDW-CV %		15.5 ± 3.0		15.0 ± 3.0		14.0 ± 3.0	
	RDW-SD fL		53.0 ± 8.0		58.5 ± 8.0		60.0 ± 8.0	
	PLT x $10^9/L$		44 ± 20		240 ± 40		462 ± 60	
	MPV fL		9.3 ± 3.0		9.5 ± 3.0		9.5 ± 3.0	
	PCT % *		0.050 ± 0.050		0.225 ± 0.100		0.435 ± 0.200	
PDW fL *		16.2 ± 3.0		16.0 ± 3.0		16.1 ± 3.0		
BC-5000, BC-5150 BC-5000Vet QC Mode	WBC $10^9/L$		3.40 ± 0.50		7.85 ± 1.00		18.60 ± 2.50	
	Neu x $10^9/L$		1.69 ± 0.35		4.45 ± 0.65		11.90 ± 1.50	
	Lym x $10^9/L$		1.24 ± 0.35		2.07 ± 0.65		3.18 ± 1.35	
	Mon x $10^9/L$		0.30 ± 0.25		0.70 ± 0.55		1.66 ± 1.35	
	Eos x $10^9/L$		0.15 ± 0.12		0.54 ± 0.40		1.60 ± 1.35	
	Bas x $10^9/L$		0.02 ± 0.02		0.09 ± 0.09		0.26 ± 0.26	
	Neu %		49.8 ± 9.0		56.7 ± 8.0		64.0 ± 8.0	
	Lym %		36.4 ± 9.0		26.4 ± 8.0		17.1 ± 7.0	
	Mon %		8.9 ± 7.0		8.9 ± 7.0		8.9 ± 7.0	
	Eos %		4.3 ± 3.5		6.9 ± 5.0		8.6 ± 7.0	
	Bas %		0.6 ± 0.6		1.1 ± 1.1		1.4 ± 1.4	
	RBC x $10^{12}/L$		2.47 ± 0.18		4.48 ± 0.24		5.37 ± 0.30	
	HGB g/L		61 ± 4		130 ± 6		168 ± 8	
	HCT %		18.8 ± 1.5		39.4 ± 2.0		50.5 ± 2.4	
	MCV fL		76.0 ± 5.0		88.0 ± 5.0		94.0 ± 5.0	
	MCH pg		24.7 ± 2.5		29.0 ± 2.5		31.3 ± 2.5	
	MCHC g/L		325 ± 30		330 ± 30		333 ± 30	
	RDW-CV %		18.5 ± 3.0		18.0 ± 3.0		17.0 ± 3.0	
	RDW-SD fL		48.0 ± 8.0		54.0 ± 8.0		55.0 ± 8.0	
	PLT x $10^9/L$		47 ± 20		246 ± 40		482 ± 60	
MPV fL		9.8 ± 3.0		9.8 ± 3.0		9.8 ± 3.0		
PCT % *		0.050 ± 0.050		0.245 ± 0.100		0.475 ± 0.200		
PDW fL *		15.7 ± 3.0		16.0 ± 3.0		16.2 ± 3.0		
P-LCC x $10^9/L$ **		14 ± 9		70 ± 15		135 ± 25		
P-LCR % **		28.5 ± 10.0		27.5 ± 10.0		27.0 ± 10.0		

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

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**Mindray**

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China

Tel: +86 755 81888998

Fax: +86 755 26582680

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Shanghai International Holding Corp. GmbH (Europe)

Eiffestraße 80 20537 Hamburg, Germany

Tel: 0049-40-2513175

Fax: 0049-40-255726