

# BC-5D

## HEMATOLOGY CONTROLS

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

<b>LOT</b>
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**BC2107B****2021-09-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2107BL	LOT	BC2107BN	LOT	BC2107BH	
<b>BC-5800,BC-5600</b>	WBC ×10 <sup>9</sup> /L	3.52	± 0.50	7.74	± 1.00	17.97	± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L	1.73	± 0.32	4.19	± 0.70	11.02	± 1.62	
	Lym# ×10 <sup>9</sup> /L	1.38	± 0.32	2.36	± 0.62	3.74	± 1.44	
	Mon# ×10 <sup>9</sup> /L	0.23	± 0.18	0.57	± 0.47	1.38	± 1.08	
	Eos# ×10 <sup>9</sup> /L	0.15	± 0.15	0.54	± 0.47	1.65	± 1.26	
	Bas# ×10 <sup>9</sup> /L	0.04	± 0.04	0.08	± 0.08	0.18	± 0.18	
	Neu%	49.1	± 9.0	54.1	± 9.0	61.3	± 9.0	
	Lym%	39.1	± 9.0	30.5	± 8.0	20.8	± 8.0	
	Mon%	6.6	± 5.0	7.4	± 6.0	7.7	± 6.0	
	Eos%	4.2	± 4.0	7.0	± 6.0	9.2	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC ×10 <sup>12</sup> /L	2.21	± 0.18	4.23	± 0.24	5.05	± 0.30	
	HGB g/L	59	± 4	135	± 6	172	± 8	
	HCT %	17.9	± 1.5	41.0	± 2.0	52.7	± 2.4	
	MCV fL	81.2	± 5.0	97.0	± 5.0	104.4	± 5.0	
	MCH pg	26.7	± 2.5	31.9	± 2.5	34.1	± 2.5	
	MCHC g/L	329	± 30	329	± 30	326	± 30	
	RDW-CV %	16.1	± 3.0	13.9	± 3.0	14.1	± 3.0	
	RDW-SD fL	46.3	± 10.0	49.3	± 10.0	54.0	± 10.0	
	PLT ×10 <sup>9</sup> /L	52	± 20	254	± 40	511	± 60	
	MPV fL	7.2	± 3.0	7.8	± 3.0	9.5	± 3.0	
	PCT %*	0.037	± 0.037	0.198	± 0.100	0.485	± 0.200	
	PDW*	16.2	± 3.0	15.9	± 3.0	16.3	± 3.0	
	P-LCC ×10 <sup>9</sup> /L	8	± 8	50	± 25	169	± 35	
	P-LCR %	16.1	± 10.0	19.5	± 10.0	33.0	± 10.0	
<b>BC-5390</b>	WBC ×10 <sup>9</sup> /L	3.25	± 0.50	7.70	± 1.00	16.85	± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L	1.67	± 0.30	4.24	± 0.70	10.62	± 1.52	
	Lym# ×10 <sup>9</sup> /L	1.17	± 0.30	2.27	± 0.70	3.12	± 1.19	
	Mon# ×10 <sup>9</sup> /L	0.23	± 0.20	0.46	± 0.39	1.26	± 1.01	
	Eos# ×10 <sup>9</sup> /L	0.18	± 0.15	0.73	± 0.54	1.85	± 1.52	
	Bas# ×10 <sup>9</sup> /L	0.78	± 0.33	2.08	± 0.77	5.12	± 1.69	
	Neu%	51.5	± 9.0	55.0	± 9.0	63.0	± 9.0	
	Lym%	36.0	± 9.0	29.5	± 9.0	18.5	± 7.0	
	Mon%	7.0	± 6.0	6.0	± 5.0	7.5	± 6.0	
	Eos%	5.5	± 4.5	9.5	± 7.0	11.0	± 9.0	
	Bas%	24.0	± 10.0	27.0	± 10.0	30.4	± 10.0	
	RBC ×10 <sup>12</sup> /L	2.09	± 0.18	4.16	± 0.24	4.98	± 0.30	
	HGB g/L	53	± 4	126	± 6	159	± 8	
	HCT %	16.8	± 1.5	39.5	± 2.0	50.8	± 2.4	
	MCV fL	80.5	± 5.0	95.0	± 5.0	102.0	± 5.0	
	MCH pg	25.4	± 2.5	30.3	± 2.5	31.9	± 2.5	
	MCHC g/L	315	± 30	319	± 30	313	± 30	
	RDW-CV %	15.5	± 3.0	13.5	± 3.0	14.0	± 3.0	
	RDW-SD fL	46.5	± 8.0	48.5	± 8.0	52.0	± 8.0	
	PLT ×10 <sup>9</sup> /L	48	± 20	241	± 40	498	± 60	
	MPV fL	10.3	± 3.0	10.6	± 3.0	12.2	± 3.0	

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## HEMATOLOGY CONTROLS

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

<b>LOT</b>
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**BC2107B**  
**2021-09-10**

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2107BL	LOT	BC2107BN	LOT	BC2107BH	
<b>BC-5390 CRP</b>	WBC ×10 <sup>9</sup> /L		3.33 ± 0.50		7.54 ± 1.00		16.98 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.69 ± 0.30		4.15 ± 0.68		10.61 ± 1.53	
	Lym# ×10 <sup>9</sup> /L		1.27 ± 0.31		2.20 ± 0.61		3.43 ± 1.36	
	Mon# ×10 <sup>9</sup> /L		0.19 ± 0.17		0.51 ± 0.45		1.12 ± 1.02	
	Eos# ×10 <sup>9</sup> /L		0.18 ± 0.17		0.68 ± 0.53		1.82 ± 1.37	
	Bas# ×10 <sup>9</sup> /L		0.83 ± 0.34		2.08 ± 0.76		5.14 ± 1.70	
	Neu%		50.9 ± 9.0		55.0 ± 9.0		62.5 ± 9.0	
	Lym%		38.0 ± 9.0		29.2 ± 8.0		20.2 ± 8.0	
	Mon%		5.7 ± 5.0		6.8 ± 6.0		6.6 ± 6.0	
	Eos%		5.4 ± 5.0		9.0 ± 7.0		10.7 ± 8.0	
	Bas%		25.0 ± 10.0		27.6 ± 10.0		30.3 ± 10.0	
	RBC ×10 <sup>12</sup> /L		2.14 ± 0.18		4.21 ± 0.24		5.03 ± 0.30	
	HGB g/L		54 ± 4		125 ± 6		158 ± 8	
	HCT %		16.9 ± 1.5		40.0 ± 2.0		51.1 ± 2.4	
	MCV fL		78.9 ± 5.0		95.0 ± 5.0		101.5 ± 5.0	
	MCH pg		25.2 ± 2.5		29.7 ± 2.5		31.4 ± 2.5	
	MCHC g/L		320 ± 30		313 ± 30		309 ± 30	
	RDW-CV %		16.3 ± 3.0		14.4 ± 3.0		14.6 ± 3.0	
	RDW-SD fL		44.4 ± 8.0		47.8 ± 8.0		51.9 ± 8.0	
	PLT ×10 <sup>9</sup> /L		44 ± 20		244 ± 40		511 ± 60	
	MPV fL		8.1 ± 3.0		8.6 ± 3.0		10.1 ± 3.0	
	PCT %*		0.036 ± 0.036		0.210 ± 0.100		0.516 ± 0.200	
	PDW*		15.9 ± 3.0		16.1 ± 3.0		16.4 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L		7 ± 7		43 ± 25		146 ± 35	
	P-LCR %		16.4 ± 10.0		17.7 ± 10.0		28.5 ± 10.0	
<b>BC-5300,BC-5100</b>	WBC ×10 <sup>9</sup> /L		3.25 ± 0.50		7.40 ± 1.00		16.90 ± 2.50	
<b>BC-5380,BC-5180</b>	Neu# ×10 <sup>9</sup> /L		1.69 ± 0.30		4.22 ± 0.67		11.07 ± 1.53	
<b>QC Mode</b>	Lym# ×10 <sup>9</sup> /L		1.21 ± 0.30		2.18 ± 0.60		3.30 ± 1.36	
(Software version lower than 1.24.00.16860)	Mon# ×10 <sup>9</sup> /L		0.14 ± 0.14		0.33 ± 0.30		0.76 ± 0.68	
	Eos# ×10 <sup>9</sup> /L		0.21 ± 0.18		0.67 ± 0.53		1.77 ± 1.35	
	Bas# ×10 <sup>9</sup> /L		1.78 ± 0.33		4.88 ± 0.74		12.79 ± 1.69	
	Neu%		52.0 ± 9.0		57.0 ± 9.0		65.5 ± 9.0	
	Lym%		37.3 ± 9.0		29.5 ± 8.0		19.5 ± 8.0	
	Mon%		4.2 ± 4.0		4.5 ± 4.0		4.5 ± 4.0	
	Eos%		6.5 ± 5.5		9.0 ± 7.0		10.5 ± 8.0	
	Bas%		54.8 ± 10.0		66.0 ± 10.0		75.7 ± 10.0	
	RBC ×10 <sup>12</sup> /L		2.13 ± 0.18		4.14 ± 0.24		4.99 ± 0.30	
	HGB g/L		55 ± 4		125 ± 6		159 ± 8	
	HCT %		17.7 ± 1.5		41.0 ± 2.0		53.1 ± 2.4	
	MCV fL		83.3 ± 5.0		99.0 ± 5.0		106.5 ± 5.0	
	MCH pg		25.8 ± 2.5		30.2 ± 2.5		31.9 ± 2.5	
	MCHC g/L		310 ± 30		305 ± 30		299 ± 30	
	RDW-CV %		15.7 ± 3.0		13.7 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		57.0 ± 8.0		60.3 ± 8.0		64.0 ± 8.0	
	PLT ×10 <sup>9</sup> /L		45 ± 20		232 ± 40		483 ± 60	
	MPV fL		8.0 ± 3.0		8.3 ± 3.0		9.7 ± 3.0	
	PCT %*		0.036 ± 0.036		0.192 ± 0.100		0.465 ± 0.200	
	PDW*		16.0 ± 3.0		16.2 ± 3.0		16.4 ± 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2107B



2021-09-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2107BL	LOT	BC2107BN	LOT	BC2107BH	
<b>BC-5300,BC-5100</b>	WBC $\times 10^9/L$		3.26 $\pm$ 0.50		7.49 $\pm$ 1.00		16.77 $\pm$ 2.50	
<b>BC-5380,BC-5180</b>	Neu# $\times 10^9/L$		1.68 $\pm$ 0.30		4.23 $\pm$ 0.68		10.95 $\pm$ 1.51	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.22 $\pm$ 0.30		2.18 $\pm$ 0.60		3.24 $\pm$ 1.35	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.14 $\pm$ 0.13		0.37 $\pm$ 0.31		0.75 $\pm$ 0.67	
	Eos# $\times 10^9/L$		0.22 $\pm$ 0.20		0.71 $\pm$ 0.53		1.83 $\pm$ 1.52	
	Bas# $\times 10^9/L$		1.79 $\pm$ 0.33		5.00 $\pm$ 0.75		12.83 $\pm$ 1.68	
	Neu%		51.5 $\pm$ 9.0		56.5 $\pm$ 9.0		65.3 $\pm$ 9.0	
	Lym%		37.4 $\pm$ 9.0		29.1 $\pm$ 8.0		19.3 $\pm$ 8.0	
	Mon%		4.4 $\pm$ 4.0		4.9 $\pm$ 4.0		4.5 $\pm$ 4.0	
	Eos%		6.7 $\pm$ 6.0		9.5 $\pm$ 7.0		10.9 $\pm$ 9.0	
	Bas%		55.0 $\pm$ 10.0		66.8 $\pm$ 10.0		76.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		2.12 $\pm$ 0.18		4.14 $\pm$ 0.24		4.97 $\pm$ 0.30	
	HGB g/L		54 $\pm$ 4		125 $\pm$ 6		158 $\pm$ 8	
	HCT %		17.1 $\pm$ 1.5		40.2 $\pm$ 2.0		51.4 $\pm$ 2.4	
	MCV fL		80.7 $\pm$ 5.0		97.0 $\pm$ 5.0		103.5 $\pm$ 5.0	
	MCH pg		25.5 $\pm$ 2.5		30.2 $\pm$ 2.5		31.8 $\pm$ 2.5	
	MCHC g/L		316 $\pm$ 30		311 $\pm$ 30		307 $\pm$ 30	
	RDW-CV %		15.6 $\pm$ 3.0		14.0 $\pm$ 3.0		14.1 $\pm$ 3.0	
	RDW-SD fL		52.7 $\pm$ 8.0		56.5 $\pm$ 8.0		61.3 $\pm$ 8.0	
	PLT $\times 10^9/L$		45 $\pm$ 20		237 $\pm$ 40		486 $\pm$ 60	
	MPV fL		7.6 $\pm$ 3.0		8.0 $\pm$ 3.0		9.5 $\pm$ 3.0	
	PCT %*		0.034 $\pm$ 0.034		0.190 $\pm$ 0.100		0.462 $\pm$ 0.200	
	PDW*		16.1 $\pm$ 3.0		16.2 $\pm$ 3.0		16.4 $\pm$ 3.0	
<b>BC-5000,BC-5150,BC-5120</b>	WBC $\times 10^9/L$		3.36 $\pm$ 0.50		7.44 $\pm$ 1.00		17.14 $\pm$ 2.50	
<b>BC-5130,BC-5140,BC-5000VET</b>	Neu# $\times 10^9/L$		1.65 $\pm$ 0.41		4.00 $\pm$ 0.90		10.44 $\pm$ 2.06	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.26 $\pm$ 0.31		2.11 $\pm$ 0.60		3.14 $\pm$ 1.21	
	Mon# $\times 10^9/L$		0.27 $\pm$ 0.27		0.65 $\pm$ 0.65		1.56 $\pm$ 1.56	
	Eos# $\times 10^9/L$		0.15 $\pm$ 0.15		0.58 $\pm$ 0.58		1.70 $\pm$ 1.70	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.10 $\pm$ 0.10		0.31 $\pm$ 0.31	
	Neu%		49.1 $\pm$ 12.0		53.8 $\pm$ 12.0		60.9 $\pm$ 12.0	
	Lym%		37.6 $\pm$ 9.0		28.4 $\pm$ 8.0		18.3 $\pm$ 7.0	
	Mon%		7.9 $\pm$ 7.9		8.7 $\pm$ 8.7		9.1 $\pm$ 9.1	
	Eos%		4.5 $\pm$ 4.5		7.8 $\pm$ 7.8		9.9 $\pm$ 9.9	
	Bas%		0.9 $\pm$ 0.9		1.3 $\pm$ 1.3		1.8 $\pm$ 1.8	
	RBC $\times 10^{12}/L$		2.14 $\pm$ 0.18		4.19 $\pm$ 0.24		5.04 $\pm$ 0.30	
	HGB g/L		55 $\pm$ 4		128 $\pm$ 6		165 $\pm$ 8	
	HCT %		17.5 $\pm$ 1.5		40.2 $\pm$ 2.0		51.9 $\pm$ 2.4	
	MCV fL		82.0 $\pm$ 5.0		96.0 $\pm$ 5.0		103.0 $\pm$ 5.0	
	MCH pg		25.7 $\pm$ 2.5		30.5 $\pm$ 2.5		32.7 $\pm$ 2.5	
	MCHC g/L		313 $\pm$ 30		318 $\pm$ 30		318 $\pm$ 30	
	RDW-CV %		19.2 $\pm$ 3.0		16.2 $\pm$ 3.0		16.3 $\pm$ 3.0	
	RDW-SD fL		56.1 $\pm$ 8.0		56.7 $\pm$ 8.0		60.9 $\pm$ 8.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		246 $\pm$ 40		511 $\pm$ 60	
	MPV fL		9.1 $\pm$ 3.0		9.9 $\pm$ 3.0		11.4 $\pm$ 3.0	
	PCT %*		0.044 $\pm$ 0.044		0.244 $\pm$ 0.100		0.583 $\pm$ 0.200	
	PDW*		15.6 $\pm$ 3.0		16.2 $\pm$ 3.0		16.5 $\pm$ 3.0	
	P-LCC $\times 10^9/L$ **		11 $\pm$ 11		65 $\pm$ 25		187 $\pm$ 35	
	P-LCR %**		22.3 $\pm$ 10.0		26.6 $\pm$ 10.0		36.5 $\pm$ 10.0	

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

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# BC-5D

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



**BC2107B**  
**2021-09-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2107BL	LOT	BC2107BN	LOT	BC2107BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC ×10 <sup>9</sup> /L	3.25	± 0.50	7.40	± 1.00	16.90	± 2.50	
	Neu# ×10 <sup>9</sup> /L	1.69	± 0.30	4.22	± 0.67	11.07	± 1.53	
	Lym# ×10 <sup>9</sup> /L	1.21	± 0.30	2.18	± 0.60	3.30	± 1.36	
	Mon# ×10 <sup>9</sup> /L	0.14	± 0.14	0.33	± 0.30	0.76	± 0.68	
	Eos# ×10 <sup>9</sup> /L	0.21	± 0.18	0.67	± 0.53	1.77	± 1.35	
	Neu%	52.0	± 9.0	57.0	± 9.0	65.5	± 9.0	
	Lym%	37.3	± 9.0	29.5	± 8.0	19.5	± 8.0	
	Mon%	4.2	± 4.0	4.5	± 4.0	4.5	± 4.0	
	Eos%	6.5	± 5.5	9.0	± 7.0	10.5	± 8.0	
	RBC ×10 <sup>12</sup> /L	2.13	± 0.18	4.14	± 0.24	4.99	± 0.30	
	HGB g/L	55	± 4	125	± 6	159	± 8	
	HCT %	17.7	± 1.5	41.0	± 2.0	53.1	± 2.4	
	MCV fL	83.3	± 5.0	99.0	± 5.0	106.5	± 5.0	
	MCH pg	25.8	± 2.5	30.2	± 2.5	31.9	± 2.5	
	MCHC g/L	310	± 30	305	± 30	299	± 30	
	RDW-CV %	15.7	± 3.0	13.7	± 3.0	13.7	± 3.0	
	RDW-SD fL	57.0	± 8.0	60.3	± 8.0	64.0	± 8.0	
	PLT ×10 <sup>9</sup> /L	45	± 20	232	± 40	483	± 60	
	MPV fL	8.0	± 3.0	8.3	± 3.0	9.7	± 3.0	
	PCT %*	0.036	± 0.036	0.192	± 0.100	0.465	± 0.200	
PDW*	16.0	± 3.0	16.2	± 3.0	16.4	± 3.0		

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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

EC	REP
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Shanghai International Holding Corp. GmbH (Europe)

Eiffestraße 80 20537 Hamburg, Germany

Tel: 0049-40-2513175

Fax: 0049-40-255726