

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2507B

2025-09-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2507BL	LOT	BC2507BN	LOT	BC2507BH	
BC-5800, BC-5600 QC Mode	WBC $\times 10^9/L$	3.36	± 0.50	7.92	± 1.00	17.92	± 2.50	
	Neu# $\times 10^9/L$	1.65	± 0.31	4.46	± 0.72	11.35	± 1.62	
	Lym# $\times 10^9/L$	1.25	± 0.31	2.33	± 0.64	3.64	± 1.44	
	Mon# $\times 10^9/L$	0.27	± 0.21	0.53	± 0.40	1.16	± 0.90	
	Eos# $\times 10^9/L$	0.16	± 0.14	0.52	± 0.40	1.59	± 1.25	
	Bas# $\times 10^9/L$	0.03	± 0.03	0.08	± 0.08	0.18	± 0.18	
	Neu%	49.0	± 9.0	56.3	± 9.0	63.3	± 9.0	
	Lym%	37.3	± 9.0	29.4	± 8.0	20.3	± 8.0	
	Mon%	7.9	± 6.0	6.7	± 5.0	6.5	± 5.0	
	Eos%	4.8	± 4.0	6.6	± 5.0	8.9	± 7.0	
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0	
	RBC $\times 10^{12}/L$	2.15	± 0.18	4.14	± 0.24	4.82	± 0.30	
	HGB g/L	59	± 4	129	± 6	163	± 8	
	HCT %	18.0	± 1.5	39.4	± 2.0	50.2	± 2.4	
	MCV fL	83.7	± 5.0	95.1	± 5.0	104.2	± 5.0	
	MCH pg	27.4	± 2.5	31.2	± 2.5	33.8	± 2.5	
	MCHC g/L	328	± 30	328	± 30	325	± 30	
	RDW-CV %	15.8	± 3.0	14.1	± 3.0	13.8	± 3.0	
	RDW-SD fL	46.7	± 10.0	49.4	± 10.0	52.7	± 10.0	
	PLT $\times 10^9/L$	55	± 20	262	± 40	499	± 60	
	MPV fL	8.6	± 3.0	8.0	± 3.0	9.0	± 3.0	
	PCT %*	0.047	± 0.047	0.210	± 0.100	0.449	± 0.200	
	PDW*	16.2	± 3.0	15.9	± 3.0	15.9	± 3.0	
	P-LCC $\times 10^9/L$	13	± 13	46	± 25	118	± 35	
	P-LCR %	23.9	± 10.0	17.5	± 10.0	23.7	± 10.0	
BC-5390 QC Mode	WBC $\times 10^9/L$	3.15	± 0.50	7.75	± 1.00	17.15	± 2.50	
	Neu# $\times 10^9/L$	1.64	± 0.29	4.50	± 0.70	10.98	± 1.55	
	Lym# $\times 10^9/L$	1.13	± 0.29	2.29	± 0.70	3.34	± 1.37	
	Mon# $\times 10^9/L$	0.20	± 0.16	0.35	± 0.24	0.86	± 0.69	
	Eos# $\times 10^9/L$	0.17	± 0.13	0.62	± 0.47	1.97	± 1.55	
	Bas# $\times 10^9/L$	0.79	± 0.32	2.13	± 0.78	5.23	± 1.72	
	Neu%	52.0	± 9.0	58.0	± 9.0	64.0	± 9.0	
	Lym%	36.0	± 9.0	29.5	± 9.0	19.5	± 8.0	
	Mon%	6.5	± 5.0	4.5	± 3.0	5.0	± 4.0	
	Eos%	5.5	± 4.0	8.0	± 6.0	11.5	± 9.0	
	Bas%	25.0	± 10.0	27.5	± 10.0	30.5	± 10.0	
	RBC $\times 10^{12}/L$	2.09	± 0.18	4.10	± 0.24	4.83	± 0.30	
	HGB g/L	54	± 4	120	± 6	153	± 8	
	HCT %	17.3	± 1.5	38.1	± 2.0	49.0	± 2.4	
	MCV fL	83.0	± 5.0	93.0	± 5.0	101.5	± 5.0	
	MCH pg	25.8	± 2.5	29.3	± 2.5	31.7	± 2.5	
	MCHC g/L	311	± 30	315	± 30	312	± 30	
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	48.5	± 8.0	50.0	± 8.0	52.5	± 8.0	
	PLT $\times 10^9/L$	57	± 20	258	± 40	493	± 60	
	MPV fL	11.7	± 3.0	10.8	± 3.0	11.7	± 3.0	

* For Research Use Only

Before using, refer to the instruction sheet for mixing directions.

All brands and products are trademarks or registered trademarks of their respective companies.

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES


BC2507B
2025-09-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2507BL	LOT	BC2507BN	LOT	BC2507BH	
BC-5390 CRP	WBC $\times 10^9/L$		3.15 \pm 0.50		7.73 \pm 1.00		17.37 \pm 2.50	
BC-5310 CRP	Neu# $\times 10^9/L$		1.65 \pm 0.29		4.49 \pm 0.70		11.25 \pm 1.57	
QC Mode	Lym# $\times 10^9/L$		1.15 \pm 0.29		2.27 \pm 0.62		3.46 \pm 1.40	
	Mon# $\times 10^9/L$		0.18 \pm 0.13		0.38 \pm 0.31		0.89 \pm 0.70	
	Eos# $\times 10^9/L$		0.17 \pm 0.13		0.59 \pm 0.47		1.77 \pm 1.39	
	Bas# $\times 10^9/L$		0.79 \pm 0.32		2.13 \pm 0.78		5.32 \pm 1.74	
	Neu%		52.2 \pm 9.0		58.1 \pm 9.0		64.8 \pm 9.0	
	Lym%		36.6 \pm 9.0		29.4 \pm 8.0		19.9 \pm 8.0	
	Mon%		5.7 \pm 4.0		4.9 \pm 4.0		5.1 \pm 4.0	
	Eos%		5.5 \pm 4.0		7.6 \pm 6.0		10.2 \pm 8.0	
	Bas%		25.1 \pm 10.0		27.5 \pm 10.0		30.6 \pm 10.0	
	RBC $\times 10^{12}/L$		2.11 \pm 0.18		4.09 \pm 0.24		4.79 \pm 0.30	
	HGB g/L		55 \pm 4		121 \pm 6		153 \pm 8	
	HCT %		17.4 \pm 1.5		38.4 \pm 2.0		49.3 \pm 2.4	
	MCV fL		82.3 \pm 5.0		93.9 \pm 5.0		102.9 \pm 5.0	
	MCH pg		26.1 \pm 2.5		29.6 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		317 \pm 30		315 \pm 30		310 \pm 30	
	RDW-CV %		16.0 \pm 3.0		14.6 \pm 3.0		14.1 \pm 3.0	
	RDW-SD fL		46.3 \pm 8.0		48.6 \pm 8.0		51.7 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		249 \pm 40		487 \pm 60	
	MPV fL		9.7 \pm 3.0		8.7 \pm 3.0		9.6 \pm 3.0	
	PCT %*		0.048 \pm 0.048		0.217 \pm 0.100		0.468 \pm 0.200	
	PDW*		15.8 \pm 3.0		15.9 \pm 3.0		16.0 \pm 3.0	
	P-LCC $\times 10^9/L$		12 \pm 12		44 \pm 25		109 \pm 35	
	P-LCR %		24.1 \pm 10.0		17.5 \pm 10.0		22.4 \pm 10.0	
BC-5300, BC-5100	WBC $\times 10^9/L$		3.15 \pm 0.50		7.60 \pm 1.00		17.10 \pm 2.50	
BC-5380, BC-5180	Neu# $\times 10^9/L$		1.69 \pm 0.32		4.64 \pm 0.76		11.80 \pm 1.71	
QC Mode (Software version lower than 1.24.00.16860)	Lym# $\times 10^9/L$		1.10 \pm 0.29		2.17 \pm 0.69		3.25 \pm 1.54	
	Mon# $\times 10^9/L$		0.16 \pm 0.13		0.23 \pm 0.23		0.43 \pm 0.43	
	Eos# $\times 10^9/L$		0.20 \pm 0.16		0.57 \pm 0.46		1.62 \pm 1.37	
	Bas# $\times 10^9/L$		1.78 \pm 0.32		5.09 \pm 0.76		13.25 \pm 1.71	
	Neu%		53.5 \pm 10.0		61.0 \pm 10.0		69.0 \pm 10.0	
	Lym%		35.0 \pm 9.0		28.5 \pm 9.0		19.0 \pm 9.0	
	Mon%		5.0 \pm 4.0		3.0 \pm 3.0		2.5 \pm 2.5	
	Eos%		6.5 \pm 5.0		7.5 \pm 6.0		9.5 \pm 8.0	
	Bas%		56.5 \pm 10.0		67.0 \pm 10.0		77.5 \pm 10.0	
	RBC $\times 10^{12}/L$		2.13 \pm 0.18		4.11 \pm 0.24		4.77 \pm 0.30	
	HGB g/L		55 \pm 4		120 \pm 6		152 \pm 8	
	HCT %		18.0 \pm 1.5		39.5 \pm 2.0		50.8 \pm 2.4	
	MCV fL		84.5 \pm 5.0		96.0 \pm 5.0		106.5 \pm 5.0	
	MCH pg		25.8 \pm 2.5		29.2 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		306 \pm 30		304 \pm 30		299 \pm 30	
	RDW-CV %		15.7 \pm 3.0		14.0 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		59.0 \pm 8.0		60.5 \pm 8.0		63.5 \pm 8.0	
	PLT $\times 10^9/L$		51 \pm 20		247 \pm 40		472 \pm 60	
	MPV fL		8.8 \pm 3.0		7.9 \pm 3.0		8.6 \pm 3.0	
	PCT %*		0.045 \pm 0.045		0.196 \pm 0.100		0.405 \pm 0.200	
	PDW*		15.9 \pm 3.0		16.0 \pm 3.0		16.0 \pm 3.0	

* For Research Use Only

Before using, refer to the instruction sheet for mixing directions.

All brands and products are trademarks or registered trademarks of their respective companies.

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT



BC2507B

2025-09-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2507BL	LOT	BC2507BN	LOT	BC2507BH	
BC-5300, BC-5100 BC-5380, BC-5180 QC Mode (Software version 1.24.00.16860 or higher)	WBC $\times 10^9/L$		3.10 \pm 0.50		7.60 \pm 1.00		16.86 \pm 2.50	
	Neu# $\times 10^9/L$		1.67 \pm 0.28		4.62 \pm 0.69		11.71 \pm 1.52	
	Lym# $\times 10^9/L$		1.07 \pm 0.28		2.17 \pm 0.69		3.15 \pm 1.35	
	Mon# $\times 10^9/L$		0.16 \pm 0.13		0.22 \pm 0.22		0.40 \pm 0.40	
	Eos# $\times 10^9/L$		0.20 \pm 0.16		0.59 \pm 0.46		1.60 \pm 1.35	
	Bas# $\times 10^9/L$		1.74 \pm 0.31		5.10 \pm 0.76		13.08 \pm 1.69	
	Neu%		54.0 \pm 9.0		60.8 \pm 9.0		69.4 \pm 9.0	
	Lym%		34.4 \pm 9.0		28.5 \pm 9.0		18.7 \pm 8.0	
	Mon%		5.0 \pm 4.0		2.9 \pm 2.9		2.4 \pm 2.4	
	Eos%		6.6 \pm 5.0		7.8 \pm 6.0		9.5 \pm 8.0	
	Bas%		56.2 \pm 10.0		67.1 \pm 10.0		77.6 \pm 10.0	
	RBC $\times 10^{12}/L$		2.12 \pm 0.18		4.08 \pm 0.24		4.77 \pm 0.30	
	HGB g/L		56 \pm 4		121 \pm 6		153 \pm 8	
	HCT %		17.9 \pm 1.5		39.2 \pm 2.0		50.2 \pm 2.4	
	MCV fL		84.3 \pm 5.0		96.0 \pm 5.0		105.2 \pm 5.0	
	MCH pg		26.4 \pm 2.5		29.7 \pm 2.5		32.1 \pm 2.5	
	MCHC g/L		313 \pm 30		309 \pm 30		305 \pm 30	
	RDW-CV %		16.1 \pm 3.0		14.6 \pm 3.0		14.1 \pm 3.0	
	RDW-SD fL		55.6 \pm 8.0		58.4 \pm 8.0		61.9 \pm 8.0	
	PLT $\times 10^9/L$		53 \pm 20		256 \pm 40		489 \pm 60	
	MPV fL		9.2 \pm 3.0		8.2 \pm 3.0		9.0 \pm 3.0	
	PCT %*		0.049 \pm 0.049		0.210 \pm 0.100		0.440 \pm 0.200	
	PDW*		16.0 \pm 3.0		16.1 \pm 3.0		16.1 \pm 3.0	
BC-5000, BC-5150, BC-5120 BC-5130, BC-5140, BC-5000VET QC Mode	WBC $\times 10^9/L$		3.27 \pm 0.50		7.76 \pm 1.00		17.33 \pm 2.50	
	Neu# $\times 10^9/L$		1.60 \pm 0.40		4.38 \pm 0.94		11.19 \pm 2.08	
	Lym# $\times 10^9/L$		1.16 \pm 0.30		2.24 \pm 0.62		3.17 \pm 1.39	
	Mon# $\times 10^9/L$		0.29 \pm 0.29		0.50 \pm 0.50		1.04 \pm 1.04	
	Eos# $\times 10^9/L$		0.19 \pm 0.19		0.55 \pm 0.55		1.65 \pm 1.65	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.09 \pm 0.09		0.28 \pm 0.28	
	Neu%		49.1 \pm 12.0		56.4 \pm 12.0		64.6 \pm 12.0	
	Lym%		35.5 \pm 9.0		28.9 \pm 8.0		18.3 \pm 8.0	
	Mon%		8.8 \pm 8.8		6.5 \pm 6.5		6.0 \pm 6.0	
	Eos%		5.7 \pm 5.7		7.1 \pm 7.1		9.5 \pm 9.5	
	Bas%		0.9 \pm 0.9		1.1 \pm 1.1		1.6 \pm 1.6	
	RBC $\times 10^{12}/L$		2.14 \pm 0.18		4.18 \pm 0.24		4.91 \pm 0.30	
	HGB g/L		56 \pm 4		123 \pm 6		157 \pm 8	
	HCT %		17.9 \pm 1.5		39.0 \pm 2.0		49.4 \pm 2.4	
	MCV fL		83.5 \pm 5.0		93.2 \pm 5.0		100.7 \pm 5.0	
	MCH pg		26.2 \pm 2.5		29.4 \pm 2.5		32.0 \pm 2.5	
	MCHC g/L		313 \pm 30		316 \pm 30		318 \pm 30	
	RDW-CV %		19.3 \pm 3.0		17.0 \pm 3.0		16.1 \pm 3.0	
	RDW-SD fL		57.9 \pm 8.0		58.2 \pm 8.0		59.3 \pm 8.0	
	PLT $\times 10^9/L$		56 \pm 20		264 \pm 40		516 \pm 60	
	MPV fL		11.4 \pm 3.0		10.0 \pm 3.0		11.0 \pm 3.0	
	PCT %*		0.064 \pm 0.064		0.264 \pm 0.100		0.568 \pm 0.200	
	PDW*		15.7 \pm 3.0		16.1 \pm 3.0		16.1 \pm 3.0	
	P-LCC $\times 10^9/L$ **		21 \pm 21		68 \pm 25		166 \pm 35	
	P-LCR %**		37.3 \pm 10.0		25.7 \pm 10.0		32.1 \pm 10.0	

* For Research Use Only

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

Before using, refer to the instruction sheet for mixing directions.

All brands and products are trademarks or registered trademarks of their respective companies.

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT**BC2507B****2025-09-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2507BL	LOT	BC2507BN	LOT	BC2507BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC $\times 10^9/L$		3.15 \pm 0.50		7.60 \pm 1.00		17.10 \pm 2.50	
	Neu# $\times 10^9/L$		1.69 \pm 0.32		4.64 \pm 0.76		11.80 \pm 1.71	
	Lym# $\times 10^9/L$		1.10 \pm 0.29		2.17 \pm 0.69		3.25 \pm 1.54	
	Mon# $\times 10^9/L$		0.16 \pm 0.13		0.23 \pm 0.23		0.43 \pm 0.43	
	Eos# $\times 10^9/L$		0.20 \pm 0.16		0.57 \pm 0.46		1.62 \pm 1.37	
	Neu%		53.5 \pm 10.0		61.0 \pm 10.0		69.0 \pm 10.0	
	Lym%		35.0 \pm 9.0		28.5 \pm 9.0		19.0 \pm 9.0	
	Mon%		5.0 \pm 4.0		3.0 \pm 3.0		2.5 \pm 2.5	
	Eos%		6.5 \pm 4.0		7.5 \pm 6.0		9.5 \pm 8.0	
	RBC $\times 10^{12}/L$		2.13 \pm 0.18		4.11 \pm 0.24		4.77 \pm 0.30	
	HGB g/L		55 \pm 4		120 \pm 6		152 \pm 8	
	HCT %		18.0 \pm 1.5		39.5 \pm 2.0		50.8 \pm 2.4	
	MCV fL		84.5 \pm 5.0		96.0 \pm 5.0		106.5 \pm 5.0	
	MCH pg		25.8 \pm 2.5		29.2 \pm 2.5		31.9 \pm 2.5	
	MCHC g/L		306 \pm 30		304 \pm 30		299 \pm 30	
	RDW-CV %		15.7 \pm 3.0		14.0 \pm 3.0		13.5 \pm 3.0	
	RDW-SD fL		59.0 \pm 8.0		60.5 \pm 8.0		63.5 \pm 8.0	
	PLT $\times 10^9/L$		51 \pm 20		247 \pm 40		472 \pm 60	
	MPV fL		8.8 \pm 3.0		7.9 \pm 3.0		8.6 \pm 3.0	
	PCT %*		0.045 \pm 0.045		0.196 \pm 0.100		0.405 \pm 0.200	
	PDW*		15.9 \pm 3.0		16.0 \pm 3.0		16.0 \pm 3.0	

* For Research Use Only

Before using, refer to the instruction sheet for mixing directions.

All brands and products are trademarks or registered trademarks of their respective companies.



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

Shanghai International Holding Corp. GmbH (Europe)

Eiffestraße 80 20537 Hamburg, Germany

Tel: 0049-40-2513175

Fax: 0049-40-255726