

BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2101B**2021-03-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2101BL	LOT	BC2101BN	LOT	BC2101BH	
BC-5800,BC-5600	WBC ×10 ⁹ /L		3.51 ± 0.50		8.00 ± 1.00		17.72 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.69 ± 0.32		4.44 ± 0.72		11.22 ± 1.60	
	Lym# ×10 ⁹ /L		1.36 ± 0.32		2.41 ± 0.65		3.44 ± 1.42	
	Mon# ×10 ⁹ /L		0.26 ± 0.22		0.53 ± 0.49		1.36 ± 1.06	
	Eos# ×10 ⁹ /L		0.17 ± 0.15		0.54 ± 0.48		1.52 ± 1.24	
	Bas# ×10 ⁹ /L		0.04 ± 0.04		0.08 ± 0.08		0.18 ± 0.18	
	Neu%		48.1 ± 9.0		55.5 ± 9.0		63.3 ± 9.0	
	Lym%		38.7 ± 9.0		30.1 ± 8.0		19.4 ± 8.0	
	Mon%		7.4 ± 6.0		6.6 ± 6.0		7.7 ± 6.0	
	Eos%		4.8 ± 4.0		6.8 ± 6.0		8.6 ± 7.0	
	Bas%		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC ×10 ¹² /L		1.98 ± 0.18		4.26 ± 0.24		4.89 ± 0.30	
	HGB g/L		57 ± 4		135 ± 6		169 ± 8	
	HCT %		17.3 ± 1.5		40.5 ± 2.0		51.5 ± 2.4	
	MCV fL		87.6 ± 5.0		95.0 ± 5.0		105.4 ± 5.0	
	MCH pg		28.8 ± 2.5		31.7 ± 2.5		34.6 ± 2.5	
	MCHC g/L		329 ± 30		334 ± 30		328 ± 30	
	RDW-CV %		15.7 ± 3.0		14.4 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		48.4 ± 10.0		51.4 ± 10.0		54.2 ± 10.0	
	PLT ×10 ⁹ /L		54 ± 20		246 ± 40		502 ± 60	
	MPV fL		8.4 ± 3.0		8.8 ± 3.0		9.1 ± 3.0	
	PCT %*		0.045 ± 0.045		0.216 ± 0.100		0.457 ± 0.200	
	PDW*		15.6 ± 3.0		16.3 ± 3.0		16.5 ± 3.0	
	P-LCC ×10 ⁹ /L		12 ± 12		63 ± 25		143 ± 35	
	P-LCR %		21.6 ± 10.0		25.6 ± 10.0		28.5 ± 10.0	
BC-5390	WBC ×10 ⁹ /L		3.30 ± 0.50		7.80 ± 1.00		16.90 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.70 ± 0.30		4.52 ± 0.71		11.07 ± 1.53	
	Lym# ×10 ⁹ /L		1.17 ± 0.30		2.07 ± 0.63		2.96 ± 1.19	
	Mon# ×10 ⁹ /L		0.23 ± 0.20		0.59 ± 0.48		1.27 ± 1.02	
	Eos# ×10 ⁹ /L		0.20 ± 0.17		0.62 ± 0.47		1.61 ± 1.36	
	Bas# ×10 ⁹ /L		0.87 ± 0.34		2.17 ± 0.79		5.27 ± 1.69	
	Neu%		51.5 ± 9.0		58.0 ± 9.0		65.5 ± 9.0	
	Lym%		35.5 ± 9.0		26.5 ± 8.0		17.5 ± 7.0	
	Mon%		7.0 ± 6.0		7.5 ± 6.0		7.5 ± 6.0	
	Eos%		6.0 ± 5.0		8.0 ± 6.0		9.5 ± 8.0	
	Bas%		26.3 ± 10.0		27.8 ± 10.0		31.2 ± 10.0	
	RBC ×10 ¹² /L		1.88 ± 0.18		4.18 ± 0.24		4.83 ± 0.30	
	HGB g/L		51 ± 4		123 ± 6		156 ± 8	
	HCT %		16.4 ± 1.5		38.9 ± 2.0		49.5 ± 2.4	
	MCV fL		87.0 ± 5.0		93.0 ± 5.0		102.5 ± 5.0	
	MCH pg		27.1 ± 2.5		29.4 ± 2.5		32.3 ± 2.5	
	MCHC g/L		312 ± 30		316 ± 30		315 ± 30	
	RDW-CV %		15.0 ± 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 ×10 ⁹ /L		52 ± 20		239 ± 40		486 ± 60	
	MPV fL		11.1 ± 3.0		11.6 ± 3.0		11.8 ± 3.0	

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Instrument	Parameter	Low		Normal		High		++
		LOT	BC2101BL	LOT	BC2101BN	LOT	BC2101BH	
BC-5390 CRP	WBC ×10 ⁹ /L		3.29 ± 0.50		7.76 ± 1.00		17.09 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.68 ± 0.30		4.45 ± 0.70		11.16 ± 1.54	
	Lym# ×10 ⁹ /L		1.18 ± 0.30		2.15 ± 0.63		3.06 ± 1.37	
	Mon# ×10 ⁹ /L		0.23 ± 0.20		0.54 ± 0.40		1.16 ± 0.86	
	Eos# ×10 ⁹ /L		0.19 ± 0.17		0.62 ± 0.47		1.71 ± 1.37	
	Bas# ×10 ⁹ /L		0.87 ± 0.34		2.19 ± 0.78		5.28 ± 1.71	
	Neu%		51.1 ± 9.0		57.4 ± 9.0		65.3 ± 9.0	
	Lym%		36.0 ± 9.0		27.7 ± 8.0		17.9 ± 8.0	
	Mon%		7.0 ± 6.0		6.9 ± 5.0		6.8 ± 5.0	
	Eos%		5.9 ± 5.0		8.0 ± 6.0		10.0 ± 8.0	
	Bas%		26.3 ± 10.0		28.2 ± 10.0		30.9 ± 10.0	
	RBC ×10 ¹² /L		1.91 ± 0.18		4.19 ± 0.24		4.84 ± 0.30	
	HGB g/L		53 ± 4		125 ± 6		157 ± 8	
	HCT %		16.3 ± 1.5		39.0 ± 2.0		49.9 ± 2.4	
	MCV fL		85.1 ± 5.0		93.1 ± 5.0		103.0 ± 5.0	
	MCH pg		27.7 ± 2.5		29.8 ± 2.5		32.4 ± 2.5	
	MCHC g/L		326 ± 30		320 ± 30		315 ± 30	
	RDW-CV %		15.5 ± 3.0		14.7 ± 3.0		14.1 ± 3.0	
	RDW-SD fL		46.8 ± 8.0		49.6 ± 8.0		51.9 ± 8.0	
	PLT ×10 ⁹ /L		50 ± 20		238 ± 40		486 ± 60	
	MPV fL		9.1 ± 3.0		9.3 ± 3.0		9.6 ± 3.0	
	PCT %*		0.046 ± 0.046		0.221 ± 0.100		0.467 ± 0.200	
	PDW*		15.2 ± 3.0		16.3 ± 3.0		16.5 ± 3.0	
	P-LCC ×10 ⁹ /L		9 ± 9		53 ± 25		126 ± 35	
	P-LCR %		18.7 ± 10.0		22.3 ± 10.0		25.9 ± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.20 ± 0.50		7.70 ± 1.00		16.95 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.73 ± 0.29		4.64 ± 0.70		11.44 ± 1.53	
QC Mode	Lym# ×10 ⁹ /L		1.14 ± 0.29		2.13 ± 0.62		2.92 ± 1.36	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.14 ± 0.13		0.35 ± 0.32		0.93 ± 0.85	
	Eos# ×10 ⁹ /L		0.19 ± 0.16		0.58 ± 0.47		1.66 ± 1.36	
	Bas# ×10 ⁹ /L		1.96 ± 0.33		5.25 ± 0.77		13.24 ± 1.70	
	Neu%		54.0 ± 9.0		60.3 ± 9.0		67.5 ± 9.0	
	Lym%		35.5 ± 9.0		27.7 ± 8.0		17.2 ± 8.0	
	Mon%		4.5 ± 4.0		4.5 ± 4.0		5.5 ± 5.0	
	Eos%		6.0 ± 5.0		7.5 ± 6.0		9.8 ± 8.0	
	Bas%		61.2 ± 10.0		68.2 ± 10.0		78.1 ± 10.0	
	RBC ×10 ¹² /L		1.93 ± 0.18		4.23 ± 0.24		4.87 ± 0.30	
	HGB g/L		53 ± 4		125 ± 6		157 ± 8	
	HCT %		17.4 ± 1.5		41.4 ± 2.0		52.6 ± 2.4	
	MCV fL		90.0 ± 5.0		97.8 ± 5.0		108.0 ± 5.0	
	MCH pg		27.5 ± 2.5		29.6 ± 2.5		32.2 ± 2.5	
	MCHC g/L		305 ± 30		302 ± 30		299 ± 30	
	RDW-CV %		15.3 ± 3.0		14.3 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		60.0 ± 8.0		61.3 ± 8.0		64.5 ± 8.0	
	PLT ×10 ⁹ /L		49 ± 20		229 ± 40		463 ± 60	
	MPV fL		9.0 ± 3.0		9.1 ± 3.0		9.4 ± 3.0	
	PCT %*		0.050 ± 0.050		0.207 ± 0.100		0.430 ± 0.200	
	PDW*		15.4 ± 3.0		16.3 ± 3.0		16.6 ± 3.0	

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Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2101BL	LOT	BC2101BN	LOT	BC2101BH	
BC-5300,BC-5100	WBC $\times 10^9/L$		3.25 \pm 0.50		7.79 \pm 1.00		17.02 \pm 2.50	
BC-5380,BC-5180	Neu# $\times 10^9/L$		1.76 \pm 0.30		4.67 \pm 0.71		11.44 \pm 1.54	
QC Mode (Software version 1.24.00.16860 or higher)	Lym# $\times 10^9/L$		1.13 \pm 0.30		2.16 \pm 0.63		2.94 \pm 1.36	
	Mon# $\times 10^9/L$		0.17 \pm 0.14		0.35 \pm 0.32		0.95 \pm 0.85	
	Eos# $\times 10^9/L$		0.19 \pm 0.17		0.62 \pm 0.48		1.68 \pm 1.36	
	Bas# $\times 10^9/L$		1.99 \pm 0.33		5.38 \pm 0.78		13.41 \pm 1.71	
	Neu%		54.3 \pm 9.0		59.9 \pm 9.0		67.2 \pm 9.0	
	Lym%		34.7 \pm 9.0		27.7 \pm 8.0		17.3 \pm 8.0	
	Mon%		5.1 \pm 4.0		4.5 \pm 4.0		5.6 \pm 5.0	
	Eos%		5.9 \pm 5.0		7.9 \pm 6.0		9.9 \pm 8.0	
	Bas%		61.2 \pm 10.0		69.1 \pm 10.0		78.8 \pm 10.0	
	RBC $\times 10^{12}/L$		1.90 \pm 0.18		4.16 \pm 0.24		4.81 \pm 0.30	
	HGB g/L		53 \pm 4		124 \pm 6		157 \pm 8	
	HCT %		16.6 \pm 1.5		39.9 \pm 2.0		51.2 \pm 2.4	
	MCV fL		87.5 \pm 5.0		96.0 \pm 5.0		106.5 \pm 5.0	
	MCH pg		27.9 \pm 2.5		29.8 \pm 2.5		32.6 \pm 2.5	
	MCHC g/L		319 \pm 30		310 \pm 30		306 \pm 30	
	RDW-CV %		15.4 \pm 3.0		14.6 \pm 3.0		13.8 \pm 3.0	
	RDW-SD fL		55.3 \pm 8.0		58.5 \pm 8.0		61.5 \pm 8.0	
	PLT $\times 10^9/L$		49 \pm 20		232 \pm 40		478 \pm 60	
	MPV fL		8.6 \pm 3.0		8.9 \pm 3.0		9.2 \pm 3.0	
	PCT %*		0.042 \pm 0.042		0.206 \pm 0.100		0.440 \pm 0.200	
	PDW*		15.4 \pm 3.0		16.4 \pm 3.0		16.7 \pm 3.0	
BC-5000,BC-5150,BC-5120	WBC $\times 10^9/L$		3.34 \pm 0.50		7.67 \pm 1.00		16.93 \pm 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# $\times 10^9/L$		1.64 \pm 0.41		4.26 \pm 0.93		10.72 \pm 2.04	
QC Mode	Lym# $\times 10^9/L$		1.16 \pm 0.30		2.06 \pm 0.62		2.76 \pm 1.19	
	Mon# $\times 10^9/L$		0.33 \pm 0.33		0.69 \pm 0.69		1.61 \pm 1.61	
	Eos# $\times 10^9/L$		0.18 \pm 0.18		0.56 \pm 0.56		1.57 \pm 1.57	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.10 \pm 0.10		0.27 \pm 0.27	
	Neu%		49.0 \pm 12.0		55.5 \pm 12.0		63.3 \pm 12.0	
	Lym%		34.8 \pm 9.0		26.9 \pm 8.0		16.3 \pm 7.0	
	Mon%		9.8 \pm 9.8		9.0 \pm 9.0		9.5 \pm 9.5	
	Eos%		5.4 \pm 5.4		7.3 \pm 7.3		9.3 \pm 9.3	
	Bas%		1.0 \pm 1.0		1.3 \pm 1.3		1.6 \pm 1.6	
	RBC $\times 10^{12}/L$		1.93 \pm 0.18		4.25 \pm 0.24		4.87 \pm 0.30	
	HGB g/L		53 \pm 4		126 \pm 6		160 \pm 8	
	HCT %		17.0 \pm 1.5		40.2 \pm 2.0		50.4 \pm 2.4	
	MCV fL		88.0 \pm 5.0		94.5 \pm 5.0		103.5 \pm 5.0	
	MCH pg		27.5 \pm 2.5		29.6 \pm 2.5		32.9 \pm 2.5	
	MCHC g/L		312 \pm 30		314 \pm 30		317 \pm 30	
	RDW-CV %		19.0 \pm 3.0		17.1 \pm 3.0		16.3 \pm 3.0	
	RDW-SD fL		59.4 \pm 8.0		59.3 \pm 8.0		60.7 \pm 8.0	
	PLT $\times 10^9/L$		52 \pm 20		240 \pm 40		500 \pm 60	
	MPV fL		10.8 \pm 3.0		10.7 \pm 3.0		11.2 \pm 3.0	
	PCT %*		0.056 \pm 0.056		0.257 \pm 0.100		0.560 \pm 0.200	
	PDW*		15.2 \pm 3.0		16.2 \pm 3.0		16.7 \pm 3.0	
	P-LCC $\times 10^9/L$ **		16 \pm 15		72 \pm 25		165 \pm 35	
	P-LCR %**		30.7 \pm 10.0		29.8 \pm 10.0		32.9 \pm 10.0	

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

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ASSAY VALUES AND EXPECTED RANGES


BC2101B
2021-03-10

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2101BL	LOT	BC2101BN	LOT	BC2101BH	
BC-5300Vet,BC-5100Vet	WBC ×10 ⁹ /L		3.20 ± 0.50		7.70 ± 1.00		16.95 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.73 ± 0.29		4.64 ± 0.70		11.44 ± 1.53	
	Lym# ×10 ⁹ /L		1.14 ± 0.29		2.13 ± 0.62		2.92 ± 1.36	
	Mon# ×10 ⁹ /L		0.14 ± 0.13		0.35 ± 0.32		0.93 ± 0.85	
	Eos# ×10 ⁹ /L		0.19 ± 0.16		0.58 ± 0.47		1.66 ± 1.36	
	Neu%		54.0 ± 9.0		60.3 ± 9.0		67.5 ± 9.0	
	Lym%		35.5 ± 9.0		27.7 ± 8.0		17.2 ± 8.0	
	Mon%		4.5 ± 4.0		4.5 ± 4.0		5.5 ± 5.0	
	Eos%		6.0 ± 5.0		7.5 ± 6.0		9.8 ± 8.0	
	RBC ×10 ¹² /L		1.93 ± 0.18		4.23 ± 0.24		4.87 ± 0.30	
	HGB g/L		53 ± 4		125 ± 6		157 ± 8	
	HCT %		17.4 ± 1.5		41.4 ± 2.0		52.6 ± 2.4	
	MCV fL		90.0 ± 5.0		97.8 ± 5.0		108.0 ± 5.0	
	MCH pg		27.5 ± 2.5		29.6 ± 2.5		32.2 ± 2.5	
	MCHC g/L		305 ± 30		302 ± 30		299 ± 30	
	RDW-CV %		15.3 ± 3.0		14.3 ± 3.0		13.5 ± 3.0	
	RDW-SD fL		60.0 ± 8.0		61.3 ± 8.0		64.5 ± 8.0	
	PLT ×10 ⁹ /L		49 ± 20		229 ± 40		463 ± 60	
	MPV fL		9.0 ± 3.0		9.1 ± 3.0		9.4 ± 3.0	
	PCT %*		0.050 ± 0.050		0.207 ± 0.100		0.430 ± 0.200	
	PDW*		15.4 ± 3.0		16.3 ± 3.0		16.6 ± 3.0	

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