

BC-5D

HEMATOLOGY CONTROLS

Revised 2022-02-10

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2203B



2022-05-10

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2203BL	LOT	BC2203BN	LOT	BC2203BH	
BC-5800,BC-5600	WBC $\times 10^9/L$		3.49 \pm 0.50		8.06 \pm 1.00		18.18 \pm 2.50	
QC Mode	Neu# $\times 10^9/L$		1.71 \pm 0.31		4.47 \pm 0.73		11.60 \pm 1.64	
	Lym# $\times 10^9/L$		1.35 \pm 0.32		2.40 \pm 0.64		3.60 \pm 1.46	
	Mon# $\times 10^9/L$		0.23 \pm 0.21		0.58 \pm 0.48		1.25 \pm 1.09	
	Eos# $\times 10^9/L$		0.17 \pm 0.14		0.52 \pm 0.48		1.55 \pm 1.46	
	Bas# $\times 10^9/L$		0.03 \pm 0.03		0.08 \pm 0.08		0.18 \pm 0.18	
	Neu%		49.0 \pm 9.0		55.5 \pm 9.0		63.8 \pm 9.0	
	Lym%		38.6 \pm 9.0		29.8 \pm 8.0		19.8 \pm 8.0	
	Mon%		6.6 \pm 6.0		7.2 \pm 6.0		6.9 \pm 6.0	
	Eos%		4.8 \pm 4.0		6.5 \pm 6.0		8.5 \pm 8.0	
	Bas%		1.0 \pm 1.0		1.0 \pm 1.0		1.0 \pm 1.0	
	RBC $\times 10^{12}/L$		2.13 \pm 0.18		4.21 \pm 0.24		4.98 \pm 0.30	
	HGB g/L		59 \pm 4		131 \pm 6		171 \pm 8	
	HCT %		17.9 \pm 1.5		40.1 \pm 2.0		52.8 \pm 2.4	
	MCV fL		84.1 \pm 5.0		95.3 \pm 5.0		106.1 \pm 5.0	
	MCH pg		27.7 \pm 2.5		31.1 \pm 2.5		34.3 \pm 2.5	
	MCHC g/L		329 \pm 30		327 \pm 30		324 \pm 30	
	RDW-CV %		15.3 \pm 3.0		14.0 \pm 3.0		13.8 \pm 3.0	
	RDW-SD fL		45.6 \pm 10.0		49.2 \pm 10.0		53.8 \pm 10.0	
	PLT $\times 10^9/L$		55 \pm 20		242 \pm 40		507 \pm 60	
	MPV fL		10.2 \pm 3.0		7.5 \pm 3.0		9.4 \pm 3.0	
	PCT %*		0.056 \pm 0.050		0.182 \pm 0.100		0.477 \pm 0.200	
	PDW*		16.5 \pm 3.0		15.8 \pm 3.0		15.7 \pm 3.0	
	P-LCC $\times 10^9/L$		24 \pm 15		42 \pm 25		148 \pm 35	
	P-LCR %		43.2 \pm 10.0		17.4 \pm 10.0		29.2 \pm 10.0	
BC-5390	WBC $\times 10^9/L$		3.30 \pm 0.50		7.90 \pm 1.00		17.35 \pm 2.50	
QC Mode	Neu# $\times 10^9/L$		1.73 \pm 0.30		4.62 \pm 0.71		11.54 \pm 1.56	
	Lym# $\times 10^9/L$		1.25 \pm 0.30		2.13 \pm 0.71		3.04 \pm 1.22	
	Mon# $\times 10^9/L$		0.13 \pm 0.10		0.51 \pm 0.47		1.13 \pm 1.04	
	Eos# $\times 10^9/L$		0.18 \pm 0.16		0.63 \pm 0.47		1.65 \pm 1.39	
	Bas# $\times 10^9/L$		0.89 \pm 0.33		2.21 \pm 0.80		5.34 \pm 1.73	
	Neu%		52.5 \pm 9.0		58.5 \pm 9.0		66.5 \pm 9.0	
	Lym%		38.0 \pm 9.0		27.0 \pm 9.0		17.5 \pm 7.0	
	Mon%		4.0 \pm 3.0		6.5 \pm 6.0		6.5 \pm 6.0	
	Eos%		5.5 \pm 5.0		8.0 \pm 6.0		9.5 \pm 8.0	
	Bas%		27.0 \pm 10.0		28.0 \pm 10.0		30.8 \pm 10.0	
	RBC $\times 10^{12}/L$		2.05 \pm 0.18		4.15 \pm 0.24		4.94 \pm 0.30	
	HGB g/L		53 \pm 4		121 \pm 6		159 \pm 8	
	HCT %		16.9 \pm 1.5		38.2 \pm 2.0		50.6 \pm 2.4	
	MCV fL		82.5 \pm 5.0		92.0 \pm 5.0		102.5 \pm 5.0	
	MCH pg		25.9 \pm 2.5		29.2 \pm 2.5		32.2 \pm 2.5	
	MCHC g/L		313 \pm 30		317 \pm 30		314 \pm 30	
	RDW-CV %		14.5 \pm 3.0		13.5 \pm 3.0		14.0 \pm 3.0	
	RDW-SD fL		46.0 \pm 8.0		48.5 \pm 8.0		53.0 \pm 8.0	
	PLT $\times 10^9/L$		54 \pm 20		227 \pm 40		497 \pm 60	
	MPV fL		13.3 \pm 3.0		10.4 \pm 3.0		12.0 \pm 3.0	

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ASSAY VALUES AND EXPECTED RANGES


BC2203B
2022-05-10

Instrument	Parameter	Low		Normal		High		++
		LOT	BC2203BL	LOT	BC2203BN	LOT	BC2203BH	
BC-5390 CRP	WBC ×10 ⁹ /L		3.27 ± 0.50		7.92 ± 1.00		17.53 ± 2.50	
QC Mode	Neu# ×10 ⁹ /L		1.69 ± 0.30		4.62 ± 0.71		11.59 ± 1.58	
	Lym# ×10 ⁹ /L		1.25 ± 0.29		2.23 ± 0.64		3.21 ± 1.40	
	Mon# ×10 ⁹ /L		0.14 ± 0.13		0.47 ± 0.40		1.07 ± 0.88	
	Eos# ×10 ⁹ /L		0.19 ± 0.18		0.61 ± 0.48		1.67 ± 1.41	
	Bas# ×10 ⁹ /L		0.89 ± 0.33		2.22 ± 0.79		5.42 ± 1.75	
	Neu%		51.6 ± 9.0		58.3 ± 9.0		66.1 ± 9.0	
	Lym%		38.3 ± 9.0		28.1 ± 8.0		18.3 ± 8.0	
	Mon%		4.2 ± 4.0		5.9 ± 5.0		6.1 ± 5.0	
	Eos%		5.9 ± 5.5		7.7 ± 6.0		9.5 ± 8.0	
	Bas%		27.1 ± 10.0		28.0 ± 10.0		30.9 ± 10.0	
	RBC ×10 ¹² /L		2.06 ± 0.18		4.17 ± 0.24		4.92 ± 0.30	
	HGB g/L		54 ± 4		122 ± 6		159 ± 8	
	HCT %		16.9 ± 1.5		39.1 ± 2.0		51.3 ± 2.4	
	MCV fL		82.1 ± 5.0		93.8 ± 5.0		104.2 ± 5.0	
	MCH pg		26.2 ± 2.5		29.3 ± 2.5		32.3 ± 2.5	
	MCHC g/L		319 ± 30		312 ± 30		310 ± 30	
	RDW-CV %		15.2 ± 3.0		14.2 ± 3.0		14.1 ± 3.0	
	RDW-SD fL		44.0 ± 8.0		47.0 ± 8.0		51.7 ± 8.0	
	PLT ×10 ⁹ /L		53 ± 20		230 ± 40		508 ± 60	
	MPV fL		11.1 ± 3.0		8.0 ± 3.0		9.6 ± 3.0	
	PCT %*		0.059 ± 0.050		0.184 ± 0.100		0.488 ± 0.200	
	PDW*		15.9 ± 3.0		15.9 ± 3.0		16.0 ± 3.0	
	P-LCC ×10 ⁹ /L		20 ± 15		35 ± 25		122 ± 35	
	P-LCR %		38.0 ± 10.0		15.2 ± 10.0		24.0 ± 10.0	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.25 ± 0.50		7.70 ± 1.00		17.35 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.72 ± 0.29		4.53 ± 0.69		11.68 ± 1.56	
QC Mode	Lym# ×10 ⁹ /L		1.19 ± 0.29		2.21 ± 0.62		3.12 ± 1.39	
(Software version lower than 1.24.00.16860)	Mon# ×10 ⁹ /L		0.15 ± 0.13		0.39 ± 0.31		0.87 ± 0.70	
	Eos# ×10 ⁹ /L		0.20 ± 0.20		0.58 ± 0.46		1.68 ± 1.39	
	Bas# ×10 ⁹ /L		2.06 ± 0.32		5.34 ± 0.77		13.50 ± 1.74	
	Neu%		52.8 ± 9.0		58.8 ± 9.0		67.3 ± 9.0	
	Lym%		36.7 ± 9.0		28.7 ± 8.0		18.0 ± 8.0	
	Mon%		4.5 ± 4.0		5.0 ± 4.0		5.0 ± 4.0	
	Eos%		6.0 ± 6.0		7.5 ± 6.0		9.7 ± 8.0	
	Bas%		63.5 ± 10.0		69.3 ± 10.0		77.8 ± 10.0	
	RBC ×10 ¹² /L		2.06 ± 0.18		4.15 ± 0.24		4.92 ± 0.30	
	HGB g/L		55 ± 4		122 ± 6		159 ± 8	
	HCT %		17.8 ± 1.5		40.2 ± 2.0		52.9 ± 2.4	
	MCV fL		86.3 ± 5.0		96.8 ± 5.0		107.5 ± 5.0	
	MCH pg		26.7 ± 2.5		29.4 ± 2.5		32.3 ± 2.5	
	MCHC g/L		309 ± 30		304 ± 30		301 ± 30	
	RDW-CV %		15.0 ± 3.0		14.0 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		56.0 ± 8.0		59.5 ± 8.0		63.8 ± 8.0	
	PLT ×10 ⁹ /L		51 ± 20		224 ± 40		481 ± 60	
	MPV fL		10.8 ± 3.0		8.0 ± 3.0		9.4 ± 3.0	
	PCT %*		0.055 ± 0.050		0.177 ± 0.100		0.453 ± 0.200	
	PDW*		16.0 ± 3.0		16.0 ± 3.0		15.9 ± 3.0	

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LOT

BC2203B**2022-05-10**

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2203BL	LOT	BC2203BN	LOT	BC2203BH	
BC-5300,BC-5100	WBC ×10 ⁹ /L		3.25 ± 0.50		7.80 ± 1.00		17.25 ± 2.50	
BC-5380,BC-5180	Neu# ×10 ⁹ /L		1.73 ± 0.29		4.66 ± 0.70		11.66 ± 1.55	
QC Mode	Lym# ×10 ⁹ /L		1.19 ± 0.29		2.15 ± 0.63		3.07 ± 1.38	
(Software version 1.24.00.16860 or higher)	Mon# ×10 ⁹ /L		0.14 ± 0.10		0.41 ± 0.32		0.81 ± 0.69	
	Eos# ×10 ⁹ /L		0.19 ± 0.16		0.59 ± 0.47		1.71 ± 1.38	
	Bas# ×10 ⁹ /L		2.03 ± 0.33		5.43 ± 0.78		13.54 ± 1.73	
	Neu%		53.1 ± 9.0		59.8 ± 9.0		67.6 ± 9.0	
	Lym%		36.6 ± 9.0		27.5 ± 8.0		17.8 ± 8.0	
	Mon%		4.4 ± 3.0		5.2 ± 4.0		4.7 ± 4.0	
	Eos%		5.9 ± 5.0		7.5 ± 6.0		9.9 ± 8.0	
	Bas%		62.5 ± 10.0		69.6 ± 10.0		78.5 ± 10.0	
	RBC ×10 ¹² /L		2.06 ± 0.18		4.16 ± 0.24		4.92 ± 0.30	
	HGB g/L		55 ± 4		123 ± 6		161 ± 8	
	HCT %		17.2 ± 1.5		39.7 ± 2.0		52.0 ± 2.4	
	MCV fL		83.5 ± 5.0		95.5 ± 5.0		105.6 ± 5.0	
	MCH pg		26.7 ± 2.5		29.6 ± 2.5		32.7 ± 2.5	
	MCHC g/L		320 ± 30		310 ± 30		310 ± 30	
	RDW-CV %		15.3 ± 3.0		14.1 ± 3.0		14.0 ± 3.0	
	RDW-SD fL		52.5 ± 8.0		56.1 ± 8.0		61.5 ± 8.0	
	PLT ×10 ⁹ /L		51 ± 20		227 ± 40		491 ± 60	
	MPV fL		10.7 ± 3.0		7.7 ± 3.0		9.3 ± 3.0	
	PCT %*		0.055 ± 0.050		0.175 ± 0.100		0.457 ± 0.200	
	PDW*		16.0 ± 3.0		16.0 ± 3.0		16.0 ± 3.0	
BC-5000,BC-5150,BC-5120	WBC ×10 ⁹ /L		3.29 ± 0.50		7.71 ± 1.00		17.41 ± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# ×10 ⁹ /L		1.64 ± 0.40		4.26 ± 0.92		11.12 ± 2.09	
QC Mode	Lym# ×10 ⁹ /L		1.19 ± 0.30		2.10 ± 0.62		2.96 ± 1.22	
	Mon# ×10 ⁹ /L		0.26 ± 0.26		0.72 ± 0.72		1.48 ± 1.48	
	Eos# ×10 ⁹ /L		0.17 ± 0.17		0.53 ± 0.53		1.57 ± 1.57	
	Bas# ×10 ⁹ /L		0.03 ± 0.03		0.09 ± 0.09		0.28 ± 0.28	
	Neu%		49.7 ± 12.0		55.3 ± 12.0		63.9 ± 12.0	
	Lym%		36.2 ± 9.0		27.3 ± 8.0		17.0 ± 7.0	
	Mon%		8.0 ± 8.0		9.3 ± 9.3		8.5 ± 8.5	
	Eos%		5.2 ± 5.2		6.9 ± 6.9		9.0 ± 9.0	
	Bas%		0.9 ± 0.9		1.2 ± 1.2		1.6 ± 1.6	
	RBC ×10 ¹² /L		2.06 ± 0.18		4.18 ± 0.24		4.96 ± 0.30	
	HGB g/L		55 ± 4		124 ± 6		164 ± 8	
	HCT %		17.3 ± 1.5		39.2 ± 2.0		51.0 ± 2.4	
	MCV fL		83.9 ± 5.0		93.8 ± 5.0		102.9 ± 5.0	
	MCH pg		26.7 ± 2.5		29.7 ± 2.5		33.1 ± 2.5	
	MCHC g/L		318 ± 30		316 ± 30		321 ± 30	
	RDW-CV %		18.1 ± 3.0		16.5 ± 3.0		16.3 ± 3.0	
	RDW-SD fL		55.0 ± 8.0		56.2 ± 8.0		60.6 ± 8.0	
	PLT ×10 ⁹ /L		54 ± 20		236 ± 40		512 ± 60	
	MPV fL		13.2 ± 3.0		9.5 ± 3.0		11.3 ± 3.0	
	PCT %*		0.071 ± 0.050		0.224 ± 0.100		0.579 ± 0.200	
	PDW*		15.6 ± 3.0		16.0 ± 3.0		16.1 ± 3.0	
	P-LCC ×10 ⁹ /L**		27 ± 15		56 ± 25		174 ± 35	
	P-LCR %**		49.6 ± 10.0		23.7 ± 10.0		33.9 ± 10.0	

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

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

Revised 2022-02-10

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2203B**2022-05-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2203BL	LOT	BC2203BN	LOT	BC2203BH	
BC-5300Vet,BC-5100Vet QC Mode	WBC ×10 ⁹ /L		3.25 ± 0.50		7.70 ± 1.00		17.35 ± 2.50	
	Neu# ×10 ⁹ /L		1.72 ± 0.29		4.53 ± 0.69		11.68 ± 1.56	
	Lym# ×10 ⁹ /L		1.19 ± 0.29		2.21 ± 0.62		3.12 ± 1.39	
	Mon# ×10 ⁹ /L		0.15 ± 0.13		0.39 ± 0.31		0.87 ± 0.70	
	Eos# ×10 ⁹ /L		0.20 ± 0.20		0.58 ± 0.46		1.68 ± 1.39	
	Neu%		52.8 ± 9.0		58.8 ± 9.0		67.3 ± 9.0	
	Lym%		36.7 ± 9.0		28.7 ± 8.0		18.0 ± 8.0	
	Mon%		4.5 ± 4.0		5.0 ± 4.0		5.0 ± 4.0	
	Eos%		6.0 ± 6.0		7.5 ± 6.0		9.7 ± 8.0	
	RBC ×10 ¹² /L		2.06 ± 0.18		4.15 ± 0.24		4.92 ± 0.30	
	HGB g/L		55 ± 4		122 ± 6		159 ± 8	
	HCT %		17.8 ± 1.5		40.2 ± 2.0		52.9 ± 2.4	
	MCV fL		86.3 ± 5.0		96.8 ± 5.0		107.5 ± 5.0	
	MCH pg		26.7 ± 2.5		29.4 ± 2.5		32.3 ± 2.5	
	MCHC g/L		309 ± 30		304 ± 30		301 ± 30	
	RDW-CV %		15.0 ± 3.0		14.0 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		56.0 ± 8.0		59.5 ± 8.0		63.8 ± 8.0	
	PLT ×10 ⁹ /L		51 ± 20		224 ± 40		481 ± 60	
	MPV fL		10.8 ± 3.0		8.0 ± 3.0		9.4 ± 3.0	
	PCT %*		0.055 ± 0.050		0.177 ± 0.100		0.453 ± 0.200	
PDW*		16.0 ± 3.0		16.0 ± 3.0		15.9 ± 3.0		

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