

# BC-5D

## HEMATOLOGY CONTROLS

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

<b>LOT</b>
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**BC2205B****2022-07-10**

Instrument	Parameter	Low		Normal		High		+
		LOT	BC2205BL	LOT	BC2205BN	LOT	BC2205BH	
<b>BC-5800, BC-5600</b>	WBC ×10 <sup>9</sup> /L		3.51 ± 0.50		8.15 ± 1.00		18.07 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.73 ± 0.32		4.51 ± 0.74		11.42 ± 1.63	
	Lym# ×10 <sup>9</sup> /L		1.31 ± 0.32		2.33 ± 0.66		3.87 ± 1.45	
	Mon# ×10 <sup>9</sup> /L		0.25 ± 0.25		0.63 ± 0.50		1.01 ± 0.91	
	Eos# ×10 <sup>9</sup> /L		0.18 ± 0.15		0.60 ± 0.49		1.59 ± 1.27	
	Bas# ×10 <sup>9</sup> /L		0.04 ± 0.04		0.08 ± 0.08		0.18 ± 0.18	
	Neu%		49.4 ± 9.0		55.3 ± 9.0		63.2 ± 9.0	
	Lym%		37.4 ± 9.0		28.6 ± 8.0		21.4 ± 8.0	
	Mon%		7.2 ± 7.0		7.7 ± 6.0		5.6 ± 5.0	
	Eos%		5.0 ± 4.0		7.4 ± 6.0		8.8 ± 7.0	
	Bas%		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0	
	RBC ×10 <sup>12</sup> /L		2.04 ± 0.18		4.21 ± 0.24		5.01 ± 0.30	
	HGB g/L		57 ± 4		133 ± 6		171 ± 8	
	HCT %		17.3 ± 1.5		40.1 ± 2.0		52.6 ± 2.4	
	MCV fL		84.9 ± 5.0		95.2 ± 5.0		105.0 ± 5.0	
	MCH pg		27.9 ± 2.5		31.6 ± 2.5		34.1 ± 2.5	
	MCHC g/L		329 ± 30		332 ± 30		325 ± 30	
	RDW-CV %		14.8 ± 3.0		13.7 ± 3.0		13.2 ± 3.0	
	RDW-SD fL		45.5 ± 10.0		48.7 ± 10.0		51.9 ± 10.0	
	PLT ×10 <sup>9</sup> /L		53 ± 20		254 ± 40		511 ± 60	
	MPV fL		8.7 ± 3.0		8.5 ± 3.0		8.0 ± 3.0	
	PCT %*		0.046 ± 0.046		0.216 ± 0.100		0.409 ± 0.200	
	PDW*		16.5 ± 3.0		16.7 ± 3.0		16.2 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L		15 ± 15		66 ± 25		111 ± 35	
	P-LCR %		27.5 ± 10.0		26.1 ± 10.0		21.7 ± 10.0	
<b>BC-5390</b>	WBC ×10 <sup>9</sup> /L		3.20 ± 0.50		7.90 ± 1.00		17.30 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.66 ± 0.29		4.50 ± 0.72		11.25 ± 1.56	
	Lym# ×10 <sup>9</sup> /L		1.12 ± 0.29		2.13 ± 0.71		3.11 ± 1.21	
	Mon# ×10 <sup>9</sup> /L		0.24 ± 0.20		0.59 ± 0.48		1.21 ± 0.86	
	Eos# ×10 <sup>9</sup> /L		0.18 ± 0.15		0.67 ± 0.56		1.73 ± 1.39	
	Bas# ×10 <sup>9</sup> /L		0.83 ± 0.32		2.20 ± 0.80		5.36 ± 1.73	
	Neu%		52.0 ± 9.0		57.0 ± 9.0		65.0 ± 9.0	
	Lym%		35.0 ± 9.0		27.0 ± 9.0		18.0 ± 7.0	
	Mon%		7.5 ± 6.0		7.5 ± 6.0		7.0 ± 5.0	
	Eos%		5.5 ± 4.4		8.5 ± 7.0		10.0 ± 8.0	
	Bas%		26.0 ± 10.0		27.8 ± 10.0		31.0 ± 10.0	
	RBC ×10 <sup>12</sup> /L		1.94 ± 0.18		4.14 ± 0.24		4.94 ± 0.30	
	HGB g/L		52 ± 4		123 ± 6		159 ± 8	
	HCT %		16.6 ± 1.5		38.9 ± 2.0		50.9 ± 2.4	
	MCV fL		85.5 ± 5.0		94.0 ± 5.0		103.0 ± 5.0	
	MCH pg		26.8 ± 2.5		29.7 ± 2.5		32.2 ± 2.5	
	MCHC g/L		313 ± 30		316 ± 30		312 ± 30	
	RDW-CV %		14.0 ± 3.0		13.0 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		46.5 ± 8.0		48.0 ± 8.0		50.0 ± 8.0	
	PLT ×10 <sup>9</sup> /L		48 ± 20		238 ± 40		481 ± 60	
	MPV fL		11.6 ± 3.0		11.4 ± 3.0		10.7 ± 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

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


**BC2205B**  
**2022-07-10**

Instrument	Parameter	Low		Normal		High		++
		<b>LOT</b>	BC2205BL	<b>LOT</b>	BC2205BN	<b>LOT</b>	BC2205BH	
<b>BC-5390 CRP</b>	WBC ×10 <sup>9</sup> /L		3.27 ± 0.50		7.94 ± 1.00		17.61 ± 2.50	
<b>QC Mode</b>	Neu# ×10 <sup>9</sup> /L		1.68 ± 0.30		4.52 ± 0.72		11.41 ± 1.59	
	Lym# ×10 <sup>9</sup> /L		1.21 ± 0.30		2.24 ± 0.64		3.49 ± 1.41	
	Mon# ×10 <sup>9</sup> /L		0.18 ± 0.15		0.52 ± 0.48		0.95 ± 0.88	
	Eos# ×10 <sup>9</sup> /L		0.20 ± 0.20		0.67 ± 0.48		1.76 ± 1.41	
	Bas# ×10 <sup>9</sup> /L		0.85 ± 0.33		2.22 ± 0.80		5.46 ± 1.77	
	Neu%		51.3 ± 9.0		56.9 ± 9.0		64.8 ± 9.0	
	Lym%		37.0 ± 9.0		28.2 ± 8.0		19.8 ± 8.0	
	Mon%		5.5 ± 4.5		6.5 ± 6.0		5.4 ± 5.0	
	Eos%		6.2 ± 6.0		8.4 ± 6.0		10.0 ± 8.0	
	Bas%		25.9 ± 10.0		27.9 ± 10.0		31.0 ± 10.0	
	RBC ×10 <sup>12</sup> /L		1.96 ± 0.18		4.15 ± 0.24		4.94 ± 0.30	
	HGB g/L		53 ± 4		124 ± 6		160 ± 8	
	HCT %		16.2 ± 1.5		39.1 ± 2.0		51.4 ± 2.4	
	MCV fL		82.9 ± 5.0		94.1 ± 5.0		104.0 ± 5.0	
	MCH pg		27.0 ± 2.5		29.9 ± 2.5		32.4 ± 2.5	
	MCHC g/L		326 ± 30		318 ± 30		311 ± 30	
	RDW-CV %		15.1 ± 3.0		14.1 ± 3.0		13.8 ± 3.0	
	RDW-SD fL		43.6 ± 8.0		46.4 ± 8.0		49.7 ± 8.0	
	PLT ×10 <sup>9</sup> /L		47 ± 20		238 ± 40		482 ± 60	
	MPV fL		9.5 ± 3.0		9.2 ± 3.0		8.5 ± 3.0	
	PCT %*		0.045 ± 0.045		0.219 ± 0.100		0.410 ± 0.200	
	PDW*		16.1 ± 3.0		16.7 ± 3.0		16.3 ± 3.0	
	P-LCC ×10 <sup>9</sup> /L		11 ± 10		57 ± 25		90 ± 35	
	P-LCR %		24.2 ± 10.0		23.8 ± 10.0		18.7 ± 10.0	
<b>BC-5300, BC-5100</b>	WBC ×10 <sup>9</sup> /L		3.28 ± 0.50		7.85 ± 1.00		17.48 ± 2.50	
<b>BC-5380, BC-5180</b>	Neu# ×10 <sup>9</sup> /L		1.71 ± 0.30		4.63 ± 0.71		11.54 ± 1.58	
<b>QC Mode</b>	Lym# ×10 <sup>9</sup> /L		1.17 ± 0.30		2.17 ± 0.71		3.18 ± 1.40	
(Software version lower than 1.24.00.16860)	Mon# ×10 <sup>9</sup> /L		0.20 ± 0.17		0.42 ± 0.40		0.96 ± 0.88	
	Eos# ×10 <sup>9</sup> /L		0.20 ± 0.17		0.63 ± 0.48		1.80 ± 1.40	
	Bas# ×10 <sup>9</sup> /L		1.98 ± 0.33		5.42 ± 0.79		13.81 ± 1.75	
	Neu%		52.2 ± 9.0		59.0 ± 9.0		66.0 ± 9.0	
	Lym%		35.8 ± 9.0		27.7 ± 9.0		18.2 ± 8.0	
	Mon%		6.0 ± 5.0		5.3 ± 5.0		5.5 ± 5.0	
	Eos%		6.0 ± 5.0		8.0 ± 6.0		10.3 ± 8.0	
	Bas%		60.5 ± 10.0		69.0 ± 10.0		79.0 ± 10.0	
	RBC ×10 <sup>12</sup> /L		1.98 ± 0.18		4.17 ± 0.24		4.95 ± 0.30	
	HGB g/L		54 ± 4		123 ± 6		159 ± 8	
	HCT %		17.4 ± 1.5		40.4 ± 2.0		53.1 ± 2.4	
	MCV fL		88.0 ± 5.0		97.0 ± 5.0		107.3 ± 5.0	
	MCH pg		27.3 ± 2.5		29.5 ± 2.5		32.1 ± 2.5	
	MCHC g/L		310 ± 30		304 ± 30		299 ± 30	
	RDW-CV %		14.8 ± 3.0		13.8 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		56.8 ± 8.0		59.3 ± 8.0		62.3 ± 8.0	
	PLT ×10 <sup>9</sup> /L		50 ± 20		235 ± 40		472 ± 60	
	MPV fL		9.4 ± 3.0		9.0 ± 3.0		8.3 ± 3.0	
	PCT %*		0.046 ± 0.046		0.210 ± 0.100		0.391 ± 0.200	
	PDW*		16.1 ± 3.0		16.7 ± 3.0		16.3 ± 3.0	

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# BC-5D

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT

BC2205B



2022-07-10

Instrument	Parameter	Low		Normal		High		+++
		LOT	BC2205BL	LOT	BC2205BN	LOT	BC2205BH	
<b>BC-5300, BC-5100</b>	WBC $\times 10^9/L$		3.26 $\pm$ 0.50		7.83 $\pm$ 1.00		17.34 $\pm$ 2.50	
<b>BC-5380, BC-5180</b>	Neu# $\times 10^9/L$		1.69 $\pm$ 0.30		4.57 $\pm$ 0.71		11.44 $\pm$ 1.56	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.16 $\pm$ 0.30		2.17 $\pm$ 0.63		3.19 $\pm$ 1.39	
(Software version 1.24.00.16860 or higher)	Mon# $\times 10^9/L$		0.20 $\pm$ 0.17		0.43 $\pm$ 0.32		0.95 $\pm$ 0.70	
	Eos# $\times 10^9/L$		0.21 $\pm$ 0.17		0.66 $\pm$ 0.55		1.75 $\pm$ 1.39	
	Bas# $\times 10^9/L$		1.96 $\pm$ 0.33		5.43 $\pm$ 0.79		13.79 $\pm$ 1.74	
	Neu%		51.8 $\pm$ 9.0		58.4 $\pm$ 9.0		66.0 $\pm$ 9.0	
	Lym%		35.6 $\pm$ 9.0		27.7 $\pm$ 8.0		18.4 $\pm$ 8.0	
	Mon%		6.1 $\pm$ 5.0		5.5 $\pm$ 4.0		5.5 $\pm$ 4.0	
	Eos%		6.5 $\pm$ 5.0		8.4 $\pm$ 7.0		10.1 $\pm$ 8.0	
	Bas%		60.0 $\pm$ 10.0		69.3 $\pm$ 10.0		79.5 $\pm$ 10.0	
	RBC $\times 10^{12}/L$		1.97 $\pm$ 0.18		4.15 $\pm$ 0.24		4.94 $\pm$ 0.30	
	HGB g/L		53 $\pm$ 4		123 $\pm$ 6		159 $\pm$ 8	
	HCT %		16.7 $\pm$ 1.5		39.6 $\pm$ 2.0		51.9 $\pm$ 2.4	
	MCV fL		84.8 $\pm$ 5.0		95.4 $\pm$ 5.0		105.0 $\pm$ 5.0	
	MCH pg		26.9 $\pm$ 2.5		29.6 $\pm$ 2.5		32.2 $\pm$ 2.5	
	MCHC g/L		317 $\pm$ 30		311 $\pm$ 30		307 $\pm$ 30	
	RDW-CV %		14.7 $\pm$ 3.0		13.7 $\pm$ 3.0		13.6 $\pm$ 3.0	
	RDW-SD fL		52.8 $\pm$ 8.0		55.8 $\pm$ 8.0		59.1 $\pm$ 8.0	
	PLT $\times 10^9/L$		48 $\pm$ 20		238 $\pm$ 40		478 $\pm$ 60	
	MPV fL		9.1 $\pm$ 3.0		8.8 $\pm$ 3.0		8.1 $\pm$ 3.0	
	PCT %*		0.044 $\pm$ 0.044		0.209 $\pm$ 0.100		0.387 $\pm$ 0.200	
	PDW*		16.1 $\pm$ 3.0		16.7 $\pm$ 3.0		16.3 $\pm$ 3.0	
<b>BC-5000, BC-5150, BC-5120</b>	WBC $\times 10^9/L$		3.32 $\pm$ 0.50		7.86 $\pm$ 1.00		17.35 $\pm$ 2.50	
<b>BC-5130, BC-5140, BC-5000VET</b>	Neu# $\times 10^9/L$		1.60 $\pm$ 0.40		4.31 $\pm$ 0.95		10.83 $\pm$ 2.09	
<b>QC Mode</b>	Lym# $\times 10^9/L$		1.18 $\pm$ 0.30		2.13 $\pm$ 0.63		3.05 $\pm$ 1.22	
	Mon# $\times 10^9/L$		0.32 $\pm$ 0.32		0.71 $\pm$ 0.71		1.53 $\pm$ 1.53	
	Eos# $\times 10^9/L$		0.18 $\pm$ 0.18		0.61 $\pm$ 0.61		1.65 $\pm$ 1.65	
	Bas# $\times 10^9/L$		0.03 $\pm$ 0.03		0.11 $\pm$ 0.11		0.29 $\pm$ 0.29	
	Neu%		48.3 $\pm$ 12.0		54.8 $\pm$ 12.0		62.4 $\pm$ 12.0	
	Lym%		35.6 $\pm$ 9.0		27.1 $\pm$ 8.0		17.6 $\pm$ 7.0	
	Mon%		9.6 $\pm$ 9.6		9.0 $\pm$ 9.0		8.8 $\pm$ 8.8	
	Eos%		5.5 $\pm$ 5.5		7.7 $\pm$ 7.7		9.5 $\pm$ 9.5	
	Bas%		1.0 $\pm$ 1.0		1.4 $\pm$ 1.4		1.7 $\pm$ 1.7	
	RBC $\times 10^{12}/L$		1.97 $\pm$ 0.18		4.20 $\pm$ 0.24		5.02 $\pm$ 0.30	
	HGB g/L		53 $\pm$ 4		125 $\pm$ 6		164 $\pm$ 8	
	HCT %		16.8 $\pm$ 1.5		39.6 $\pm$ 2.0		51.1 $\pm$ 2.4	
	MCV fL		85.5 $\pm$ 5.0		94.2 $\pm$ 5.0		101.8 $\pm$ 5.0	
	MCH pg		26.9 $\pm$ 2.5		29.8 $\pm$ 2.5		32.7 $\pm$ 2.5	
	MCHC g/L		315 $\pm$ 30		316 $\pm$ 30		321 $\pm$ 30	
	RDW-CV %		18.2 $\pm$ 3.0		16.2 $\pm$ 3.0		15.4 $\pm$ 3.0	
	RDW-SD fL		55.8 $\pm$ 8.0		56.0 $\pm$ 8.0		58.2 $\pm$ 8.0	
	PLT $\times 10^9/L$		51 $\pm$ 20		247 $\pm$ 40		509 $\pm$ 60	
	MPV fL		11.2 $\pm$ 3.0		10.6 $\pm$ 3.0		9.7 $\pm$ 3.0	
	PCT %*		0.057 $\pm$ 0.050		0.262 $\pm$ 0.100		0.494 $\pm$ 0.200	
	PDW*		15.8 $\pm$ 3.0		16.6 $\pm$ 3.0		16.5 $\pm$ 3.0	
	P-LCC $\times 10^9/L$ **		18 $\pm$ 15		77 $\pm$ 25		130 $\pm$ 35	
	P-LCR %**		35.5 $\pm$ 10.0		31.1 $\pm$ 10.0		25.5 $\pm$ 10.0	

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

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# BC-5D

## HEMATOLOGY CONTROLS

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

<b>LOT</b>
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**BC2205B****2022-07-10**

Instrument	Parameter	Low		Normal		High		++++
		LOT	BC2205BL	LOT	BC2205BN	LOT	BC2205BH	
BC-5300Vet, BC-5100Vet QC Mode	WBC ×10 <sup>9</sup> /L		3.28 ± 0.50		7.85 ± 1.00		17.48 ± 2.50	
	Neu# ×10 <sup>9</sup> /L		1.71 ± 0.30		4.63 ± 0.71		11.54 ± 1.58	
	Lym# ×10 <sup>9</sup> /L		1.17 ± 0.30		2.17 ± 0.71		3.18 ± 1.40	
	Mon# ×10 <sup>9</sup> /L		0.20 ± 0.17		0.42 ± 0.40		0.96 ± 0.88	
	Eos# ×10 <sup>9</sup> /L		0.20 ± 0.17		0.63 ± 0.48		1.80 ± 1.40	
	Neu%		52.2 ± 9.0		59.0 ± 9.0		66.0 ± 9.0	
	Lym%		35.8 ± 9.0		27.7 ± 9.0		18.2 ± 8.0	
	Mon%		6.0 ± 5.0		5.3 ± 5.0		5.5 ± 5.0	
	Eos%		6.0 ± 5.0		8.0 ± 6.0		10.3 ± 8.0	
	RBC ×10 <sup>12</sup> /L		1.98 ± 0.18		4.17 ± 0.24		4.95 ± 0.30	
	HGB g/L		54 ± 4		123 ± 6		159 ± 8	
	HCT %		17.4 ± 1.5		40.4 ± 2.0		53.1 ± 2.4	
	MCV fL		88.0 ± 5.0		97.0 ± 5.0		107.3 ± 5.0	
	MCH pg		27.3 ± 2.5		29.5 ± 2.5		32.1 ± 2.5	
	MCHC g/L		310 ± 30		304 ± 30		299 ± 30	
	RDW-CV %		14.8 ± 3.0		13.8 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		56.8 ± 8.0		59.3 ± 8.0		62.3 ± 8.0	
	PLT ×10 <sup>9</sup> /L		50 ± 20		235 ± 40		472 ± 60	
	MPV fL		9.4 ± 3.0		9.0 ± 3.0		8.3 ± 3.0	
	PCT %*		0.046 ± 0.046		0.210 ± 0.100		0.391 ± 0.200	
PDW*		16.1 ± 3.0		16.7 ± 3.0		16.3 ± 3.0		

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EC	REP
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