

CBC-5DMR

For MINDRAY
HEMATOLOGY CONTROLS**CONTROL**

ASSAY VALUES AND EXPECTED RANGES

LOT BC2405B**2024-07-10**

Instrument	Parameter	Low		Normal		High	
		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH
BC-5800, BC-5600 QC Mode	WBC x 10 ⁹ /L		3.41 ± 0.50		7.95 ± 1.00		17.96 ± 2.50 +
	Neu x 10 ⁹ /L		1.65 ± 0.31		4.40 ± 0.72		11.40 ± 1.62
	Lym x 10 ⁹ /L		1.34 ± 0.31		2.39 ± 0.64		3.74 ± 1.44
	Mon x 10 ⁹ /L		0.24 ± 0.18		0.56 ± 0.40		1.15 ± 0.90
	Eos x 10 ⁹ /L		0.15 ± 0.11		0.52 ± 0.40		1.49 ± 1.08
	Bas x 10 ⁹ /L		0.03 ± 0.03		0.08 ± 0.08		0.18 ± 0.18
	Neu %		48.5 ± 9.0		55.4 ± 9.0		63.5 ± 9.0
	Lym %		39.2 ± 9.0		30.0 ± 8.0		20.8 ± 8.0
	Mon %		6.9 ± 5.0		7.1 ± 5.0		6.4 ± 5.0
	Eos %		4.4 ± 3.0		6.5 ± 5.0		8.3 ± 6.0
	Bas %		1.0 ± 1.0		1.0 ± 1.0		1.0 ± 1.0
	RBC x 10 ¹² /L		2.17 ± 0.18		4.05 ± 0.24		4.96 ± 0.30
	HGB g/dL		5.9 ± 0.4		12.9 ± 0.6		16.7 ± 0.8
	HCT %		18.3 ± 1.5		39.7 ± 2.0		52.4 ± 2.4
	MCV fL		84.2 ± 5.0		98.0 ± 5.0		105.7 ± 5.0
	MCH pg		27.2 ± 2.5		31.9 ± 2.5		33.7 ± 2.5
	MCHC g/dL		32.3 ± 3.0		32.5 ± 3.0		31.9 ± 3.0
	RDW-CV %		15.6 ± 3.0		13.5 ± 3.0		13.5 ± 3.0
	RDW-SD fL		47.6 ± 10.0		49.5 ± 10.0		53.1 ± 10.0
	PLT x 10 ⁹ /L		53 ± 20		255 ± 40		500 ± 60
MPV fL		8.1 ± 3.0		9.3 ± 3.0		9.7 ± 3.0	
PCT % *		0.043 ± 0.043		0.237 ± 0.100		0.485 ± 0.200	
PDW *		15.9 ± 3.0		16.1 ± 3.0		16.3 ± 3.0	
P-LCC x 10 ⁹ /L		10 ± 10		69 ± 25		155 ± 35	
P-LCR %		19.1 ± 10.0		27.0 ± 10.0		31.0 ± 10.0	
BC-5390 QC Mode	WBC x 10 ⁹ /L		3.25 ± 0.50		7.75 ± 1.00		17.15 ± 2.50
	Neu x 10 ⁹ /L		1.66 ± 0.30		4.42 ± 0.70		11.23 ± 1.55
	Lym x 10 ⁹ /L		1.24 ± 0.30		2.17 ± 0.70		3.34 ± 1.37
	Mon x 10 ⁹ /L		0.20 ± 0.17		0.50 ± 0.39		0.86 ± 0.69
	Eos x 10 ⁹ /L		0.16 ± 0.13		0.66 ± 0.47		1.72 ± 1.38
	Bas x 10 ⁹ /L		0.80 ± 0.33		2.13 ± 0.78		5.23 ± 1.72
	Neu %		51.0 ± 9.0		57.0 ± 9.0		65.5 ± 9.0
	Lym %		38.0 ± 9.0		28.0 ± 9.0		19.5 ± 8.0
	Mon %		6.0 ± 5.0		6.5 ± 5.0		5.0 ± 4.0
	Eos %		5.0 ± 4.0		8.5 ± 6.0		10.0 ± 8.0
	Bas %		24.5 ± 10.0		27.5 ± 10.0		30.5 ± 10.0
	RBC x 10 ¹² /L		2.11 ± 0.18		3.98 ± 0.24		4.92 ± 0.30
	HGB g/dL		5.4 ± 0.4		12.0 ± 0.6		15.6 ± 0.8
	HCT %		17.3 ± 1.5		38.2 ± 2.0		50.4 ± 2.4
	MCV fL		82.0 ± 5.0		96.0 ± 5.0		102.5 ± 5.0
	MCH pg		25.6 ± 2.5		30.2 ± 2.5		31.7 ± 2.5
	MCHC g/dL		31.2 ± 3.0		31.4 ± 3.0		30.9 ± 3.0
	RDW-CV %		15.5 ± 3.0		13.5 ± 3.0		13.5 ± 3.0
	RDW-SD fL		49.5 ± 8.0		50.0 ± 8.0		52.5 ± 8.0
	PLT x 10 ⁹ /L		51 ± 20		252 ± 40		492 ± 60
MPV fL		11.2 ± 3.0		12.2 ± 3.0		12.4 ± 3.0	

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R&D Systems, Inc.614 McKinley Place NE
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AS136-014 Rev. 09/22

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LOT BC2405B**2024-07-10**

Instrument	Parameter	Low		Normal		High		
		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5390 CRP	WBC x 10 ⁹ /L		3.23 ± 0.50		7.76 ± 1.00		17.39 ± 2.50	++
BC-5310 CRP	Neu x 10 ⁹ /L		1.65 ± 0.30		4.44 ± 0.70		11.37 ± 1.57	
QC Mode	Lym x 10 ⁹ /L		1.25 ± 0.30		2.26 ± 0.63		3.43 ± 1.40	
	Mon x 10 ⁹ /L		0.17 ± 0.13		0.40 ± 0.31		0.89 ± 0.70	
	Eos x 10 ⁹ /L		0.16 ± 0.13		0.66 ± 0.47		1.70 ± 1.39	
	Bas x 10 ⁹ /L		0.79 ± 0.33		2.13 ± 0.78		5.29 ± 1.74	
	Neu %		50.9 ± 9.0		57.2 ± 9.0		65.4 ± 9.0	
	Lym %		38.7 ± 9.0		29.1 ± 8.0		19.7 ± 8.0	
	Mon %		5.3 ± 4.0		5.2 ± 4.0		5.1 ± 4.0	
	Eos %		5.1 ± 4.0		8.5 ± 6.0		9.8 ± 8.0	
	Bas %		24.5 ± 10.0		27.5 ± 10.0		30.4 ± 10.0	
	RBC x 10 ¹² /L		2.11 ± 0.18		4.01 ± 0.24		4.91 ± 0.30	
	HGB g/dL		5.5 ± 0.4		12.0 ± 0.6		15.7 ± 0.8	
	HCT %		17.3 ± 1.5		38.8 ± 2.0		51.5 ± 2.4	
	MCV fL		82.2 ± 5.0		96.8 ± 5.0		104.8 ± 5.0	
	MCH pg		26.1 ± 2.5		29.9 ± 2.5		32.0 ± 2.5	
	MCHC g/dL		31.7 ± 3.0		30.9 ± 3.0		30.5 ± 3.0	
	RDW-CV %		16.1 ± 3.0		14.1 ± 3.0		13.9 ± 3.0	
	RDW-SD fL		47.4 ± 8.0		48.6 ± 8.0		51.9 ± 8.0	
	PLT x 10 ⁹ /L		46 ± 20		246 ± 40		488 ± 60	
	MPV fL		9.3 ± 3.0		10.1 ± 3.0		10.3 ± 3.0	
	PCT % *		0.043 ± 0.043		0.248 ± 0.100		0.503 ± 0.200	
	PDW *		15.6 ± 3.0		16.1 ± 3.0		16.2 ± 3.0	
	P-LCC x 10 ⁹ /L		9 ± 9		63 ± 25		142 ± 35	
	P-LCR %		20.3 ± 10.0		25.8 ± 10.0		29.0 ± 10.0	
BC-5300, BC-5100	WBC x 10 ⁹ /L		3.25 ± 0.50		7.75 ± 1.00		17.50 ± 2.50	
BC-5380, BC-5180	Neu x 10 ⁹ /L		1.71 ± 0.30		4.61 ± 0.70		11.81 ± 1.58	
QC Mode	Lym x 10 ⁹ /L		1.27 ± 0.30		2.25 ± 0.70		3.50 ± 1.40	
(Software version lower than 1.24.00.16860)	Mon x 10 ⁹ /L		0.08 ± 0.07		0.27 ± 0.23		0.44 ± 0.44	
	Eos x 10 ⁹ /L		0.20 ± 0.17		0.62 ± 0.47		1.75 ± 1.40	
	Bas x 10 ⁹ /L		1.80 ± 0.33		5.27 ± 0.78		13.48 ± 1.75	
	Neu %		52.5 ± 9.0		59.5 ± 9.0		67.5 ± 9.0	
	Lym %		39.0 ± 9.0		29.0 ± 9.0		20.0 ± 8.0	
	Mon %		2.5 ± 2.0		3.5 ± 3.0		2.5 ± 2.5	
	Eos %		6.0 ± 5.0		8.0 ± 6.0		10.0 ± 8.0	
	Bas %		55.5 ± 10.0		68.0 ± 10.0		77.0 ± 10.0	
	RBC x 10 ¹² /L		2.11 ± 0.18		4.02 ± 0.24		4.89 ± 0.30	
	HGB g/dL		5.6 ± 0.4		12.0 ± 0.6		15.6 ± 0.8	
	HCT %		18.0 ± 1.5		39.8 ± 2.0		52.3 ± 2.4	
	MCV fL		85.5 ± 5.0		99.0 ± 5.0		107.0 ± 5.0	
	MCH pg		26.5 ± 2.5		29.9 ± 2.5		31.9 ± 2.5	
	MCHC g/dL		31.0 ± 3.0		30.2 ± 3.0		29.8 ± 3.0	
	RDW-CV %		15.5 ± 3.0		13.5 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		60.0 ± 8.0		61.0 ± 8.0		64.5 ± 8.0	
	PLT x 10 ⁹ /L		47 ± 20		240 ± 40		466 ± 60	
	MPV fL		9.0 ± 3.0		9.7 ± 3.0		9.9 ± 3.0	
	PCT % *		0.042 ± 0.042		0.231 ± 0.100		0.463 ± 0.200	
	PDW *		15.6 ± 3.0		16.0 ± 3.0		16.2 ± 3.0	

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		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5300, BC-5100	WBC x 10 ⁹ /L		3.22 ± 0.50		7.78 ± 1.00		17.22 ± 2.50	+++
BC-5380, BC-5180	Neu x 10 ⁹ /L		1.70 ± 0.29		4.62 ± 0.70		11.49 ± 1.55	
QC Mode	Lym x 10 ⁹ /L		1.25 ± 0.29		2.25 ± 0.70		3.44 ± 1.38	
(Software version 1.24.00.16860 or higher)	Mon x 10 ⁹ /L		0.09 ± 0.09		0.23 ± 0.23		0.45 ± 0.45	
	Eos x 10 ⁹ /L		0.18 ± 0.13		0.68 ± 0.47		1.84 ± 1.38	
	Bas x 10 ⁹ /L		1.78 ± 0.33		5.24 ± 0.78		13.35 ± 1.73	
	Neu %		52.9 ± 9.0		59.5 ± 9.0		66.7 ± 9.0	
	Lym %		38.7 ± 9.0		28.9 ± 9.0		20.0 ± 8.0	
	Mon %		2.7 ± 2.5		2.9 ± 2.9		2.6 ± 2.6	
	Eos %		5.7 ± 4.0		8.7 ± 6.0		10.7 ± 8.0	
	Bas %		55.2 ± 10.0		67.4 ± 10.0		77.5 ± 10.0	
	RBC x 10 ¹² /L		2.15 ± 0.18		4.02 ± 0.24		4.89 ± 0.30	
	HGB g/dL		5.6 ± 0.4		12.0 ± 0.6		15.6 ± 0.8	
	HCT %		18.1 ± 1.5		39.5 ± 2.0		52.0 ± 2.4	
	MCV fL		84.0 ± 5.0		98.3 ± 5.0		106.4 ± 5.0	
	MCH pg		26.0 ± 2.5		29.9 ± 2.5		31.9 ± 2.5	
	MCHC g/dL		31.0 ± 3.0		30.4 ± 3.0		30.0 ± 3.0	
	RDW-CV %		15.8 ± 3.0		14.0 ± 3.0		13.7 ± 3.0	
	RDW-SD fL		56.8 ± 8.0		58.0 ± 8.0		62.3 ± 8.0	
	PLT x 10 ⁹ /L		48 ± 20		248 ± 40		486 ± 60	
	MPV fL		8.6 ± 3.0		9.7 ± 3.0		9.8 ± 3.0	
	PCT % *		0.041 ± 0.041		0.241 ± 0.100		0.476 ± 0.200	
	PDW *		15.6 ± 3.0		16.2 ± 3.0		16.3 ± 3.0	
BC-5000, BC-5150, BC-5140	WBC x 10 ⁹ /L		3.35 ± 0.50		7.85 ± 1.00		17.40 ± 2.50	
BC-5130, BC-5120, BC-5000Vet	Neu x 10 ⁹ /L		1.62 ± 0.41		4.35 ± 0.95		11.34 ± 2.09	
QC Mode	Lym x 10 ⁹ /L		1.27 ± 0.30		2.17 ± 0.63		3.36 ± 1.22	
	Mon x 10 ⁹ /L		0.23 ± 0.23		0.54 ± 0.54		0.82 ± 0.82	
	Eos x 10 ⁹ /L		0.20 ± 0.20		0.67 ± 0.67		1.62 ± 1.62	
	Bas x 10 ⁹ /L		0.03 ± 0.03		0.12 ± 0.12		0.26 ± 0.26	
	Neu %		48.2 ± 12.0		55.4 ± 12.0		65.2 ± 12.0	
	Lym %		38.0 ± 9.0		27.7 ± 8.0		19.3 ± 7.0	
	Mon %		6.9 ± 6.9		6.9 ± 6.9		4.7 ± 4.7	
	Eos %		5.9 ± 5.9		8.5 ± 8.5		9.3 ± 9.3	
	Bas %		1.0 ± 1.0		1.5 ± 1.5		1.5 ± 1.5	
	RBC x 10 ¹² /L		2.14 ± 0.18		4.06 ± 0.24		5.00 ± 0.30	
	HGB g/dL		5.6 ± 0.4		12.2 ± 0.6		16.0 ± 0.8	
	HCT %		17.9 ± 1.5		38.9 ± 2.0		50.8 ± 2.4	
	MCV fL		83.6 ± 5.0		95.9 ± 5.0		101.6 ± 5.0	
	MCH pg		26.2 ± 2.5		30.0 ± 2.5		32.0 ± 2.5	
	MCHC g/dL		31.3 ± 3.0		31.3 ± 3.0		31.5 ± 3.0	
	RDW-CV %		19.3 ± 3.0		16.4 ± 3.0		16.1 ± 3.0	
	RDW-SD fL		59.3 ± 8.0		58.3 ± 8.0		60.8 ± 8.0	
	PLT x 10 ⁹ /L		50 ± 20		253 ± 40		502 ± 60	
	MPV fL		10.6 ± 3.0		11.6 ± 3.0		11.8 ± 3.0	
	PCT % *		0.053 ± 0.053		0.293 ± 0.100		0.592 ± 0.200	
	PDW *		15.5 ± 3.0		16.1 ± 3.0		16.5 ± 3.0	
	P-LCC x 10 ⁹ /L**		16 ± 15		93 ± 25		200 ± 35	
	P-LCR %**		32.7 ± 10.0		36.6 ± 10.0		39.9 ± 10.0	

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

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		LOT	BC2405BL	LOT	BC2405BN	LOT	BC2405BH	
BC-5300 Vet, BC-5100Vet	WBC x 10 ⁹ /L		3.25 ± 0.50		7.75 ± 1.00		17.50 ± 2.50	****
QC Mode	Neu x 10 ⁹ /L		1.71 ± 0.30		4.61 ± 0.70		11.81 ± 1.58	
	Lym x 10 ⁹ /L		1.27 ± 0.30		2.25 ± 0.70		3.50 ± 1.40	
	Mon x 10 ⁹ /L		0.08 ± 0.07		0.27 ± 0.24		0.44 ± 0.44	
	Eos x 10 ⁹ /L		0.20 ± 0.17		0.62 ± 0.47		1.75 ± 1.40	
	Neu %		52.5 ± 9.0		59.5 ± 9.0		67.5 ± 9.0	
	Lym %		39.0 ± 9.0		29.0 ± 9.0		20.0 ± 8.0	
	Mon %		2.5 ± 2.0		3.5 ± 3.0		2.5 ± 2.5	
	Eos %		6.0 ± 5.0		8.0 ± 6.0		10.0 ± 8.0	
	RBC x 10 ¹² /L		2.11 ± 0.18		4.02 ± 0.24		4.89 ± 0.30	
	HGB g/dL		5.6 ± 0.4		12.0 ± 0.6		15.6 ± 0.8	
	HCT %		18.0 ± 1.5		39.8 ± 2.0		52.3 ± 2.4	
	MCV fL		85.5 ± 5.0		99.0 ± 5.0		107.0 ± 5.0	
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	RDW-CV %		15.5 ± 3.0		13.5 ± 3.0		13.0 ± 3.0	
	RDW-SD fL		60.0 ± 8.0		61.0 ± 8.0		64.5 ± 8.0	
	PLT x 10 ⁹ /L		47 ± 20		240 ± 40		466 ± 60	
	MPV fL		9.0 ± 3.0		9.7 ± 3.0		9.9 ± 3.0	
	PCT % *		0.042 ± 0.042		0.231 ± 0.100		0.463 ± 0.200	
	PDW *		15.6 ± 3.0		16.0 ± 3.0		16.2 ± 3.0	

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