

BC-3D**HEMATOLOGY CONTROLS****CONTROL****LOT B0225****2025-05-05**

ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+
		LOT	B0225L	LOT	B0225N	LOT	B0225H	
BC-3200, BC-3000CT	WBC × 10 ³ /μL		2.2 ± 0.5		8.5 ± 1.0		22.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.39 ± 0.18		4.75 ± 0.24		5.75 ± 0.30	
	HGB g/dL		6.1 ± 0.4		14.2 ± 0.6		18.7 ± 0.8	
	HCT %		18.1 ± 1.5		41.5 ± 2.0		54.9 ± 2.4	
	MCV fL		75.8 ± 5.0		87.4 ± 5.0		95.5 ± 5.0	
	MCH pg		25.5 ± 2.5		29.9 ± 2.5		32.5 ± 2.5	
	MCHC g/dL		33.7 ± 3.0		34.2 ± 3.0		34.1 ± 3.0	
	RDW-CV		15.4 ± 3.0		14.6 ± 3.0		14.0 ± 3.0	
	RDW-SD		38.3 ± 6.0		41.2 ± 6.0		43.5 ± 8.0	
	PLT × 10 ³ /μL		76 ± 20		251 ± 40		516 ± 60	
	MPV fL		7.9 ± 3.0		7.3 ± 3.0		7.1 ± 3.0	
	Lymph %		53.5 ± 12.0		26.0 ± 8.0		10.4 ± 6.0	
	Mid %		13.7 ± 10.0		11.1 ± 10.0		6.2 ± 5.0	
	Gran %		32.8 ± 9.0		62.9 ± 8.0		83.4 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.2 ± 0.7		2.4 ± 1.4	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.9 ± 0.9		1.4 ± 1.2	
	Gran × 10 ³ /μL		0.7 ± 0.2		5.4 ± 0.7		18.8 ± 1.8	
BC-3000 Plus, BC-2900, BC-1800	WBC × 10 ³ /μL		2.1 ± 0.5		8.2 ± 1.0		21.8 ± 2.5	
	RBC × 10 ⁶ /μL		2.43 ± 0.18		4.83 ± 0.24		5.80 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.4 ± 0.6		19.1 ± 0.8	
	HCT %		18.1 ± 1.5		41.5 ± 2.0		54.3 ± 2.4	
	MCV fL		74.5 ± 5.0		85.9 ± 5.0		93.7 ± 5.0	
	MCH pg		25.5 ± 2.5		29.8 ± 2.5		32.9 ± 2.5	
	MCHC g/dL		34.2 ± 3.0		34.7 ± 3.0		35.1 ± 3.0	
	RDW-CV		16.6 ± 3.0		15.4 ± 3.0		14.9 ± 3.0	
	RDW-SD		40.5 ± 6.0		43.9 ± 6.0		46.9 ± 8.0	
	PLT × 10 ³ /μL		77 ± 20		255 ± 40		523 ± 60	
	MPV fL		8.2 ± 3.0		7.6 ± 3.0		7.3 ± 3.0	
	PCT % *		0.063 ± 0.050		0.194 ± 0.100		0.382 ± 0.200	
	PDW *		16.6 ± 3.0		15.8 ± 3.0		15.7 ± 3.0	
	Lymph %		55.0 ± 12.0		26.9 ± 8.0		10.5 ± 6.0	
	Mid %		14.0 ± 10.0		11.5 ± 10.0		6.9 ± 6.0	
	Gran %		31.0 ± 9.0		61.6 ± 8.0		82.6 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.2 ± 0.7		2.3 ± 1.4	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.9 ± 0.8		1.5 ± 1.3	
	Gran × 10 ³ /μL		0.6 ± 0.2		5.1 ± 0.7		18.0 ± 1.8	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++
		LOT	B0225L	LOT	B0225N	LOT	B0225H	
BC-2800, BC-2600 (Software version 2.0 or higher)	WBC × 10 ³ /μL		2.0 ± 0.5		8.1 ± 1.0		21.9 ± 2.5	
	RBC × 10 ⁶ /μL		2.36 ± 0.18		4.80 ± 0.24		5.81 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.3 ± 0.6		19.1 ± 0.8	
	HCT %		17.5 ± 1.5		41.2 ± 2.0		54.8 ± 2.4	
	MCV fL		74.1 ± 5.0		85.9 ± 5.0		94.4 ± 5.0	
	MCH pg		26.3 ± 2.5		29.8 ± 2.5		32.9 ± 2.5	
	MCHC g/dL		35.5 ± 3.0		34.7 ± 3.0		34.8 ± 3.0	
	RDW-CV		16.5 ± 3.0		14.8 ± 3.0		14.7 ± 3.0	
	RDW-SD		40.3 ± 6.0		43.4 ± 6.0		45.9 ± 8.0	
	PLT × 10 ³ /μL		67 ± 20		245 ± 40		513 ± 60	
	MPV fL		9.5 ± 3.0		9.2 ± 3.0		9.1 ± 3.0	
	PCT % *		0.064 ± 0.050		0.225 ± 0.100		0.467 ± 0.200	
	PDW *		14.9 ± 3.0		14.8 ± 3.0		14.7 ± 3.0	
	Lymph %		59.1 ± 12.0		29.2 ± 8.0		12.0 ± 7.0	
	Mid %		11.2 ± 8.0		7.8 ± 6.0		4.9 ± 4.0	
	Gran %		29.7 ± 10.0		63.0 ± 9.0		83.1 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.7		2.6 ± 1.6	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.6 ± 0.5		1.1 ± 0.9	
	Gran × 10 ³ /μL		0.6 ± 0.2		5.1 ± 0.8		18.2 ± 1.8	
BC-2300, BC-2100	WBC × 10 ³ /μL		2.0 ± 0.5		8.1 ± 1.0		22.0 ± 2.5	
	RBC × 10 ⁶ /μL		2.42 ± 0.18		4.78 ± 0.24		5.69 ± 0.30	
	HGB g/dL		6.3 ± 0.4		14.5 ± 0.6		18.6 ± 0.8	
	HCT %		17.5 ± 1.5		40.3 ± 2.0		52.5 ± 2.4	
	MCV fL		72.4 ± 5.0		84.3 ± 5.0		92.3 ± 5.0	
	MCH pg		26.0 ± 2.5		30.3 ± 2.5		32.7 ± 2.5	
	MCHC g/dL		36.0 ± 3.0		36.0 ± 3.0		35.4 ± 3.0	
	RDW-CV		15.6 ± 3.0		13.5 ± 3.0		13.4 ± 3.0	
	RDW-SD		35.4 ± 8.0		36.0 ± 8.0		39.3 ± 8.0	
	PLT × 10 ³ /μL		65 ± 20		243 ± 40		529 ± 60	
	MPV fL		9.4 ± 3.0		9.4 ± 3.0		9.4 ± 3.0	
	PCT % *		0.061 ± 0.050		0.228 ± 0.100		0.497 ± 0.200	
	PDW *		14.9 ± 3.0		15.0 ± 3.0		14.9 ± 3.0	
	Lymph %		58.9 ± 12.0		29.2 ± 9.0		12.0 ± 8.0	
	Mid %		11.1 ± 8.0		9.9 ± 7.0		10.0 ± 7.0	
	Gran %		30.0 ± 10.0		60.9 ± 10.0		78.0 ± 10.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.8		2.6 ± 1.8	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.8 ± 0.6		2.2 ± 1.6	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.9 ± 0.8		17.2 ± 2.2	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+++
		LOT	B0225L	LOT	B0225N	LOT	B0225H	
BC-20s, BC-21s BC-30, BC-30s, BC-30e, BC-31, BC-31s	WBC × 10 ³ /μL		2.1 ± 0.5		8.1 ± 1.0		22.1 ± 2.5	
	RBC × 10 ⁶ /μL		2.32 ± 0.18		4.68 ± 0.24		5.63 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.3 ± 0.6		18.8 ± 0.8	
	HCT %		17.9 ± 1.5		40.8 ± 2.0		52.8 ± 2.4	
	MCV fL		77.3 ± 5.0		87.1 ± 5.0		93.7 ± 5.0	
	MCH pg		26.7 ± 2.5		30.6 ± 2.5		33.4 ± 2.5	
	MCHC g/dL		34.6 ± 3.0		35.1 ± 3.0		35.6 ± 3.0	
	RDW-CV		17.1 ± 3.0		15.6 ± 3.0		14.9 ± 3.0	
	RDW-SD		45.2 ± 8.0		46.8 ± 8.0		48.3 ± 8.0	
	PLT × 10 ³ /μL		65 ± 20		257 ± 40		563 ± 60	
	MPV fL		8.4 ± 3.0		8.4 ± 3.0		8.4 ± 3.0	
	PCT % *		0.055 ± 0.050		0.216 ± 0.100		0.473 ± 0.200	
	PDW *		16.0 ± 3.0		16.1 ± 3.0		16.5 ± 3.0	
	P-LCC		14 ± 10		48 ± 22		103 ± 30	
	P-LCR		21.6 ± 9.0		18.6 ± 9.0		18.3 ± 9.0	
	Lymph %		60.9 ± 12.0		29.7 ± 8.0		10.6 ± 8.0	
	Mid %		10.2 ± 8.0		9.3 ± 8.0		6.3 ± 6.0	
	Gran %		28.9 ± 12.0		61.0 ± 8.0		83.1 ± 9.0	
	Lymph × 10 ³ /μL		1.3 ± 0.3		2.4 ± 0.7		2.3 ± 1.8	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.8 ± 0.7		1.4 ± 1.4	
	Gran × 10 ³ /μL		0.6 ± 0.3		4.9 ± 0.7		18.4 ± 2.0	
BC-3600, BC-3300	WBC × 10 ³ /μL		2.0 ± 0.5		8.1 ± 1.0		21.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.44 ± 0.18		4.91 ± 0.24		5.87 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.2 ± 0.6		18.9 ± 0.8	
	HCT %		18.4 ± 1.5		41.6 ± 2.0		54.2 ± 2.4	
	MCV fL		75.5 ± 5.0		84.8 ± 5.0		92.4 ± 5.0	
	MCH pg		25.4 ± 2.5		28.9 ± 2.5		32.2 ± 2.5	
	MCHC g/dL		33.7 ± 3.0		34.1 ± 3.0		34.8 ± 3.0	
	RDW-CV		17.1 ± 3.0		14.7 ± 3.0		14.2 ± 3.0	
	RDW-SD		39.9 ± 8.0		42.0 ± 8.0		46.2 ± 8.0	
	PLT × 10 ³ /μL		68 ± 20		249 ± 40		525 ± 60	
	MPV fL		8.4 ± 3.0		8.3 ± 3.0		8.3 ± 3.0	
	PCT % *		0.057 ± 0.050		0.207 ± 0.100		0.436 ± 0.200	
	PDW *		15.3 ± 3.0		15.7 ± 3.0		15.9 ± 3.0	
	P-LCC		17 ± 10		61 ± 22		125 ± 30	
	P-LCR		25.5 ± 9.0		24.5 ± 9.0		23.8 ± 9.0	
	Lymph %		57.9 ± 9.0		28.6 ± 8.0		11.5 ± 8.0	
	Mid %		12.4 ± 12.4		9.1 ± 9.1		4.3 ± 4.3	
	Gran %		29.7 ± 10.0		62.3 ± 8.0		84.2 ± 9.0	
	Lymph × 10 ³ /μL		1.2 ± 0.2		2.3 ± 0.7		2.5 ± 1.8	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.7 ± 0.7		0.9 ± 0.9	
	Gran × 10 ³ /μL		0.6 ± 0.2		5.1 ± 0.7		18.2 ± 2.0	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++++
		LOT	B0225L	LOT	B0225N	LOT	B0225H	
BC-10, BC-10e, BC-11	WBC × 10 ³ /μL		2.0 ± 0.5		7.9 ± 1.0		21.2 ± 2.5	
	RBC × 10 ⁶ /μL		2.30 ± 0.18		4.69 ± 0.24		5.64 ± 0.30	
BC-20, BC-21	HGB g/dL		6.2 ± 0.4		14.2 ± 0.6		18.7 ± 0.8	
	HCT %		17.5 ± 1.5		40.4 ± 2.0		52.2 ± 2.4	
	MCV fL		75.9 ± 5.0		86.2 ± 5.0		92.6 ± 5.0	
	MCH pg		27.0 ± 2.5		30.3 ± 2.5		33.2 ± 2.5	
	MCHC g/dL		35.5 ± 3.0		35.1 ± 3.0		35.8 ± 3.0	
	RDW-CV		17.3 ± 3.0		15.8 ± 3.0		15.2 ± 3.0	
	RDW-SD		43.0 ± 8.0		43.4 ± 8.0		45.4 ± 8.0	
	PLT × 10 ³ /μL		61 ± 20		241 ± 40		501 ± 60	
	MPV fL		8.8 ± 3.0		8.9 ± 3.0		9.0 ± 3.0	
	PCT % *		0.054 ± 0.050		0.214 ± 0.100		0.451 ± 0.200	
	PDW *		15.0 ± 3.0		15.5 ± 3.0		15.9 ± 3.0	
	P-LCR		21.4 ± 9.0		20.3 ± 9.0		21.5 ± 9.0	
	Lymph %		60.4 ± 12.0		30.6 ± 8.0		11.3 ± 8.0	
	Mid %		10.7 ± 8.0		9.0 ± 7.0		6.0 ± 5.0	
	Gran %		28.9 ± 10.0		60.4 ± 8.0		82.7 ± 9.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.7		2.4 ± 1.7	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.7 ± 0.6		1.3 ± 1.1	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.8 ± 0.7		17.5 ± 1.9	
BC-2800Vet, BC-2600Vet (Software version 2.0 or higher)	WBC × 10 ³ /μL		2.0 ± 0.5		8.1 ± 1.0		21.9 ± 2.5	
	RBC × 10 ⁶ /μL		2.36 ± 0.18		4.80 ± 0.24		5.81 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.3 ± 0.6		19.1 ± 0.8	
	HCT %		17.5 ± 1.5		41.2 ± 2.0		54.8 ± 2.4	
	MCV fL		74.1 ± 5.0		85.9 ± 5.0		94.4 ± 5.0	
	MCH pg		26.3 ± 2.5		29.8 ± 2.5		32.9 ± 2.5	
	MCHC g/dL		35.5 ± 3.0		34.7 ± 3.0		34.8 ± 3.0	
	PLT × 10 ³ /μL		67 ± 20		245 ± 40		513 ± 60	

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