

CBC-3D

HEMATOLOGY CONTROLS

CONTROL

LOT	B0226
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2026-05-05

ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+
		LOT	B0226L	LOT	B0226N	LOT	B0226H	
BC-3000 Plus, BC-2900, BC-1800	WBC × 10 ³ /μL		2.3 ± 0.5		8.2 ± 1.0		21.3 ± 2.5	
	RBC × 10 ⁶ /μL		2.36 ± 0.18		4.72 ± 0.24		5.78 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.8 ± 0.6		18.9 ± 0.8	
	HCT %		18.1 ± 2.0		40.5 ± 2.4		54.4 ± 3.0	
	MCV fL		76.5 ± 5.0		85.8 ± 5.0		94.1 ± 5.0	
	MCH pg		25.8 ± 2.5		29.2 ± 2.5		32.7 ± 2.5	
	MCHC g/dL		33.8 ± 3.0		34.1 ± 3.0		34.7 ± 3.0	
	RDW-CV		17.3 ± 3.0		15.5 ± 3.0		14.8 ± 3.0	
	RDW-SD		43.6 ± 6.0		44.5 ± 6.0		48.0 ± 8.0	
	PLT × 10 ³ /μL		74 ± 20		241 ± 40		550 ± 60	
	MPV fL		8.2 ± 3.0		7.8 ± 3.0		7.8 ± 3.0	
	PCT % *		0.061 ± 0.050		0.188 ± 0.100		0.429 ± 0.200	
	PDW *		16.3 ± 3.0		15.8 ± 3.0		15.7 ± 3.0	
	Lymph %		56.3 ± 12.0		27.5 ± 8.0		13.4 ± 6.0	
	Mid %		11.9 ± 9.0		8.3 ± 7.0		5.7 ± 5.0	
	Gran %		31.8 ± 9.0		64.2 ± 8.0		80.9 ± 8.0	
	Lymph × 10 ³ /μL		1.3 ± 0.3		2.3 ± 0.7		2.9 ± 1.3	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.7 ± 0.6		1.2 ± 1.1	
	Gran × 10 ³ /μL		0.7 ± 0.2		5.2 ± 0.7		17.2 ± 1.7	
	BC-2800, BC-2600 (Software version 2.0 or higher)	WBC × 10 ³ /μL		2.2 ± 0.5		8.0 ± 1.0		21.2 ± 2.5
RBC × 10 ⁶ /μL			2.26 ± 0.18		4.63 ± 0.24		5.75 ± 0.30	
HGB g/dL			6.0 ± 0.4		13.7 ± 0.6		18.8 ± 0.8	
HCT %			17.1 ± 2.0		39.4 ± 2.4		54.2 ± 3.0	
MCV fL			75.5 ± 5.0		85.0 ± 5.0		94.3 ± 5.0	
MCH pg			26.5 ± 2.5		29.6 ± 2.5		32.7 ± 2.5	
MCHC g/dL			35.2 ± 3.0		34.8 ± 3.0		34.7 ± 3.0	
RDW-CV			16.9 ± 3.0		15.3 ± 3.0		14.2 ± 3.0	
RDW-SD			41.5 ± 6.0		41.2 ± 6.0		44.3 ± 8.0	
PLT × 10 ³ /μL			67 ± 20		233 ± 40		550 ± 60	
MPV fL			9.5 ± 3.0		9.3 ± 3.0		9.5 ± 3.0	
PCT % *			0.064 ± 0.050		0.217 ± 0.100		0.523 ± 0.200	
PDW *			15.0 ± 3.0		14.8 ± 3.0		14.8 ± 3.0	
Lymph %			59.1 ± 12.0		28.9 ± 8.0		14.7 ± 7.0	
Mid %			9.9 ± 8.0		6.6 ± 5.0		4.3 ± 4.0	
Gran %			31.0 ± 10.0		64.5 ± 9.0		81.0 ± 8.0	
Lymph × 10 ³ /μL			1.3 ± 0.3		2.3 ± 0.7		3.1 ± 1.5	
Mid × 10 ³ /μL			0.2 ± 0.2		0.5 ± 0.4		0.9 ± 0.9	
Gran × 10 ³ /μL			0.7 ± 0.3		5.2 ± 0.8		17.2 ± 1.7	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		High		++	
		LOT	B0226L	LOT	B0226N		LOT
BC-3600, BC-3300	WBC × 10 ³ /μL		2.2 ± 0.5		8.0 ± 1.0		21.2 ± 2.5
	RBC × 10 ⁶ /μL		2.37 ± 0.18		4.83 ± 0.24		5.92 ± 0.30
	HGB g/dL		6.1 ± 0.4		13.7 ± 0.6		18.7 ± 0.8
	HCT %		18.3 ± 2.0		40.8 ± 2.4		54.9 ± 3.0
	MCV fL		77.1 ± 5.0		84.5 ± 5.0		92.7 ± 5.0
	MCH pg		25.7 ± 2.5		28.4 ± 2.5		31.6 ± 2.5
	MCHC g/dL		33.4 ± 3.0		33.6 ± 3.0		34.1 ± 3.0
	RDW-CV		17.4 ± 3.0		15.0 ± 3.0		14.3 ± 3.0
	RDW-SD		40.0 ± 8.0		42.3 ± 8.0		46.5 ± 8.0
	PLT × 10 ³ /μL		69 ± 20		242 ± 40		572 ± 60
	MPV fL		8.5 ± 3.0		8.6 ± 3.0		8.9 ± 3.0
	PCT % *		0.059 ± 0.050		0.208 ± 0.100		0.509 ± 0.200
	PDW *		15.2 ± 3.0		15.6 ± 3.0		15.8 ± 3.0
	P-LCC		18 ± 10		65 ± 22		162 ± 30
	P-LCR		26.7 ± 9.0		26.7 ± 9.0		28.3 ± 9.0
	Lymph %		57.1 ± 9.0		28.1 ± 8.0		13.8 ± 8.0
	Mid %		11.8 ± 11.8		7.4 ± 7.4		5.0 ± 5.0
	Gran %		31.1 ± 10.0		64.5 ± 8.0		81.2 ± 9.0
	Lymph × 10 ³ /μL		1.3 ± 0.2		2.2 ± 0.7		2.9 ± 1.7
	Mid × 10 ³ /μL		0.3 ± 0.3		0.6 ± 0.6		1.1 ± 1.1
Gran × 10 ³ /μL		0.6 ± 0.2		5.2 ± 0.7		17.2 ± 1.9	
BC-20s, BC-21s	WBC × 10 ³ /μL		2.3 ± 0.5		7.9 ± 1.0		21.5 ± 2.5
BC-30, BC-30s, BC-30e,	RBC × 10 ⁶ /μL		2.24 ± 0.18		4.56 ± 0.24		5.66 ± 0.30
BC-31, BC-31s	HGB g/dL		6.1 ± 0.4		13.7 ± 0.6		18.6 ± 0.8
	HCT %		17.8 ± 2.0		39.6 ± 2.4		53.4 ± 3.0
	MCV fL		79.3 ± 5.0		86.8 ± 5.0		94.3 ± 5.0
	MCH pg		27.2 ± 2.5		30.0 ± 2.5		32.9 ± 2.5
	MCHC g/dL		34.3 ± 3.0		34.6 ± 3.0		34.8 ± 3.0
	RDW-CV		17.0 ± 3.0		15.2 ± 3.0		14.7 ± 3.0
	RDW-SD		47.1 ± 8.0		45.1 ± 8.0		47.1 ± 8.0
	PLT × 10 ³ /μL		65 ± 20		242 ± 40		597 ± 60
	MPV fL		8.6 ± 3.0		8.6 ± 3.0		8.9 ± 3.0
	PCT % *		0.056 ± 0.050		0.208 ± 0.100		0.531 ± 0.200
	PDW *		15.8 ± 3.0		16.2 ± 3.0		16.5 ± 3.0
	P-LCC		13 ± 10		49 ± 22		129 ± 30
	P-LCR		20.4 ± 9.0		20.2 ± 9.0		21.6 ± 9.0
	Lymph %		61.7 ± 12.0		29.0 ± 8.0		13.7 ± 8.0
	Mid %		7.8 ± 7.0		6.6 ± 6.0		5.5 ± 5.0
	Gran %		30.5 ± 12.0		64.4 ± 8.0		80.8 ± 9.0
	Lymph × 10 ³ /μL		1.4 ± 0.3		2.3 ± 0.7		2.9 ± 1.7
	Mid × 10 ³ /μL		0.2 ± 0.2		0.5 ± 0.5		1.2 ± 1.1
	Gran × 10 ³ /μL		0.7 ± 0.3		5.1 ± 0.7		17.4 ± 2.0

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