


BC-3D

HEMATOLOGY CONTROLS

CONTROL

LOT

 B0226



 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 ± 1.5	40.5 ± 2.0	54.4 ± 2.4	
	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 ± 1.5	39.4 ± 2.0	54.2 ± 2.4	
	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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		LOT	B0226L	LOT	B0226N	LOT	B0226H	
BC-2300, BC-2100	WBC × 10 ³ /μL		2.2 ± 0.5		8.0 ± 1.0		21.4 ± 2.5	
	RBC × 10 ⁶ /μL		2.30 ± 0.18		4.59 ± 0.24		5.74 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.5 ± 0.6		18.4 ± 0.8	
	HCT %		17.3 ± 1.5		38.9 ± 2.0		53.6 ± 2.4	
	MCV fL		75.0 ± 5.0		84.7 ± 5.0		93.3 ± 5.0	
	MCH pg		26.5 ± 2.5		29.4 ± 2.5		32.1 ± 2.5	
	MCHC g/dL		35.4 ± 3.0		34.7 ± 3.0		34.4 ± 3.0	
	RDW-CV		15.8 ± 3.0		14.0 ± 3.0		13.6 ± 3.0	
	RDW-SD		37.1 ± 8.0		37.4 ± 8.0		40.1 ± 8.0	
	PLT × 10 ³ /μL		64 ± 20		229 ± 40		606 ± 60	
	MPV fL		9.4 ± 3.0		9.6 ± 3.0		9.8 ± 3.0	
	PCT % *		0.060 ± 0.050		0.220 ± 0.100		0.594 ± 0.200	
	PDW *		14.8 ± 3.0		15.0 ± 3.0		15.0 ± 3.0	
	Lymph %		58.3 ± 12.0		28.7 ± 9.0		14.6 ± 8.0	
	Mid %		11.2 ± 8.0		11.0 ± 7.0		10.1 ± 7.0	
	Gran %		30.5 ± 10.0		60.3 ± 10.0		75.3 ± 10.0	
	Lymph × 10 ³ /μL		1.3 ± 0.3		2.3 ± 0.8		3.1 ± 1.7	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.9 ± 0.6		2.2 ± 1.6	
	Gran × 10 ³ /μL		0.7 ± 0.3		4.8 ± 0.8		16.1 ± 2.2	
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 ± 1.5		39.6 ± 2.0		53.4 ± 2.4	
	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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		LOT	B0226L	LOT	B0226N	LOT	B0226H	
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 ± 1.5		40.8 ± 2.0		54.9 ± 2.4	
	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-10, BC-10e, BC-11 BC-20, BC-21	WBC × 10 ³ /μL		2.2 ± 0.5		7.6 ± 1.0		20.4 ± 2.5	
	RBC × 10 ⁶ /μL		2.19 ± 0.18		4.48 ± 0.24		5.58 ± 0.30	
	HGB g/dL		6.0 ± 0.4		13.6 ± 0.6		18.5 ± 0.8	
	HCT %		17.1 ± 1.5		38.5 ± 2.0		51.6 ± 2.4	
	MCV fL		77.9 ± 5.0		85.9 ± 5.0		92.5 ± 5.0	
	MCH pg		27.4 ± 2.5		30.4 ± 2.5		33.2 ± 2.5	
	MCHC g/dL		35.2 ± 3.0		35.3 ± 3.0		35.8 ± 3.0	
	RDW-CV		17.8 ± 3.0		15.9 ± 3.0		15.4 ± 3.0	
	RDW-SD		45.3 ± 8.0		44.8 ± 8.0		45.7 ± 8.0	
	PLT × 10 ³ /μL		62 ± 20		223 ± 40		548 ± 60	
	MPV fL		9.0 ± 3.0		8.8 ± 3.0		9.1 ± 3.0	
	PCT % *		0.056 ± 0.050		0.196 ± 0.100		0.499 ± 0.200	
	PDW *		15.1 ± 3.0		15.6 ± 3.0		15.9 ± 3.0	
	P-LCR		22.3 ± 9.0		21.8 ± 9.0		23.5 ± 9.0	
	Lymph %		61.4 ± 12.0		29.6 ± 8.0		14.4 ± 8.0	
	Mid %		7.5 ± 7.0		6.1 ± 5.0		4.6 ± 4.0	
	Gran %		31.1 ± 10.0		64.3 ± 8.0		81.0 ± 9.0	
	Lymph × 10 ³ /μL		1.4 ± 0.3		2.2 ± 0.6		2.9 ± 1.7	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.5 ± 0.5		0.9 ± 0.8	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.9 ± 0.7		16.6 ± 1.9	

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		LOT	B0226L	LOT	B0226N	LOT	B0226H	
BC-2800Vet, BC-2600Vet (Software version 2.0 or higher)	WBC $\times 10^3/\mu\text{L}$		2.2 \pm 0.5		8.0 \pm 1.0		21.2 \pm 2.5	
	RBC $\times 10^6/\mu\text{L}$		2.26 \pm 0.18		4.63 \pm 0.24		5.75 \pm 0.30	
	HGB g/dL		6.0 \pm 0.4		13.7 \pm 0.6		18.8 \pm 0.8	
	HCT %		17.1 \pm 1.5		39.4 \pm 2.0		54.2 \pm 2.4	
	MCV fL		75.5 \pm 5.0		85.0 \pm 5.0		94.3 \pm 5.0	
	MCH pg		26.5 \pm 2.5		29.6 \pm 2.5		32.7 \pm 2.5	
	MCHC g/dL		35.2 \pm 3.0		34.8 \pm 3.0		34.7 \pm 3.0	
	PLT $\times 10^3/\mu\text{L}$		67 \pm 20		233 \pm 40		550 \pm 60	

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**Mindray**

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