

BC-3D**HEMATOLOGY CONTROLS****CONTROL****LOT B0525****2025-08-05**

ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+
		LOT	B0525L	LOT	B0525N	LOT	B0525H	
BC-3200, BC-3000CT	WBC × 10 ³ /μL		2.2 ± 0.5		8.6 ± 1.0		22.4 ± 2.5	
	RBC × 10 ⁶ /μL		2.30 ± 0.18		4.77 ± 0.24		5.84 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.0 ± 0.6		19.1 ± 0.8	
	HCT %		18.3 ± 1.5		41.3 ± 2.0		55.9 ± 2.4	
	MCV fL		79.5 ± 5.0		86.5 ± 5.0		95.8 ± 5.0	
	MCH pg		27.0 ± 2.5		29.4 ± 2.5		32.7 ± 2.5	
	MCHC g/dL		33.9 ± 3.0		33.9 ± 3.0		34.1 ± 3.0	
	RDW-CV		15.7 ± 3.0		14.4 ± 3.0		13.6 ± 3.0	
	RDW-SD		41.4 ± 6.0		40.8 ± 6.0		43.6 ± 8.0	
	PLT × 10 ³ /μL		80 ± 20		262 ± 40		510 ± 60	
	MPV fL		7.9 ± 3.0		7.2 ± 3.0		7.1 ± 3.0	
	Lymph %		52.7 ± 12.0		26.8 ± 8.0		13.3 ± 6.0	
	Mid %		12.8 ± 10.0		7.8 ± 7.0		3.9 ± 3.0	
	Gran %		34.5 ± 9.0		65.4 ± 8.0		82.8 ± 9.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.3 ± 0.7		3.0 ± 1.4	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.7 ± 0.7		0.9 ± 0.7	
	Gran × 10 ³ /μL		0.7 ± 0.2		5.6 ± 0.7		18.5 ± 2.1	
BC-3000 Plus, BC-2900, BC-1800	WBC × 10 ³ /μL		2.1 ± 0.5		8.3 ± 1.0		21.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.34 ± 0.18		4.80 ± 0.24		5.86 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.2 ± 0.6		19.4 ± 0.8	
	HCT %		18.3 ± 1.5		41.1 ± 2.0		55.1 ± 2.4	
	MCV fL		78.2 ± 5.0		85.6 ± 5.0		94.1 ± 5.0	
	MCH pg		26.5 ± 2.5		29.6 ± 2.5		33.1 ± 2.5	
	MCHC g/dL		33.9 ± 3.0		34.6 ± 3.0		35.2 ± 3.0	
	RDW-CV		17.4 ± 3.0		15.1 ± 3.0		14.5 ± 3.0	
	RDW-SD		45.2 ± 6.0		44.8 ± 6.0		47.3 ± 8.0	
	PLT × 10 ³ /μL		80 ± 20		262 ± 40		518 ± 60	
	MPV fL		7.9 ± 3.0		7.4 ± 3.0		7.3 ± 3.0	
	PCT % *		0.063 ± 0.050		0.194 ± 0.100		0.378 ± 0.200	
	PDW *		16.4 ± 3.0		15.9 ± 3.0		15.7 ± 3.0	
	Lymph %		54.1 ± 12.0		27.6 ± 8.0		13.9 ± 6.0	
	Mid %		13.4 ± 10.0		8.3 ± 7.0		3.9 ± 3.0	
	Gran %		32.5 ± 9.0		64.1 ± 8.0		82.2 ± 8.0	
	Lymph × 10 ³ /μL		1.1 ± 0.3		2.3 ± 0.7		3.0 ± 1.3	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.7 ± 0.6		0.8 ± 0.7	
	Gran × 10 ³ /μL		0.7 ± 0.2		5.3 ± 0.7		17.8 ± 1.8	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++
		LOT	B0525L	LOT	B0525N	LOT	B0525H	
BC-2800, BC-2600 (Software version 2.0 or higher)	WBC × 10 ³ /μL		2.1 ± 0.5		8.0 ± 1.0		21.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.27 ± 0.18		4.80 ± 0.24		5.90 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.1 ± 0.6		19.3 ± 0.8	
	HCT %		17.6 ± 1.5		40.6 ± 2.0		55.7 ± 2.4	
	MCV fL		77.4 ± 5.0		84.6 ± 5.0		94.4 ± 5.0	
	MCH pg		27.3 ± 2.5		29.4 ± 2.5		32.7 ± 2.5	
	MCHC g/dL		35.3 ± 3.0		34.7 ± 3.0		34.7 ± 3.0	
	RDW-CV		16.9 ± 3.0		14.7 ± 3.0		14.2 ± 3.0	
	RDW-SD		43.8 ± 6.0		42.2 ± 6.0		45.0 ± 8.0	
	PLT × 10 ³ /μL		68 ± 20		244 ± 40		498 ± 60	
	MPV fL		9.3 ± 3.0		9.0 ± 3.0		9.0 ± 3.0	
	PCT % *		0.063 ± 0.050		0.220 ± 0.100		0.448 ± 0.200	
	PDW *		14.9 ± 3.0		14.8 ± 3.0		14.6 ± 3.0	
	Lymph %		57.3 ± 12.0		29.1 ± 8.0		15.5 ± 7.0	
	Mid %		10.8 ± 8.0		6.9 ± 6.0		3.3 ± 3.0	
	Gran %		31.9 ± 10.0		64.0 ± 9.0		81.2 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.3 ± 0.7		3.3 ± 1.5	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.6 ± 0.6		0.7 ± 0.7	
	Gran × 10 ³ /μL		0.7 ± 0.3		5.1 ± 0.8		17.6 ± 1.8	
BC-2300, BC-2100	WBC × 10 ³ /μL		2.1 ± 0.5		8.3 ± 1.0		21.8 ± 2.5	
	RBC × 10 ⁶ /μL		2.29 ± 0.18		4.70 ± 0.24		5.72 ± 0.30	
	HGB g/dL		6.4 ± 0.4		14.1 ± 0.6		18.9 ± 0.8	
	HCT %		17.5 ± 1.5		39.5 ± 2.0		53.3 ± 2.4	
	MCV fL		76.5 ± 5.0		84.1 ± 5.0		93.2 ± 5.0	
	MCH pg		27.9 ± 2.5		30.0 ± 2.5		33.0 ± 2.5	
	MCHC g/dL		36.5 ± 3.0		35.7 ± 3.0		35.5 ± 3.0	
	RDW-CV		16.0 ± 3.0		13.9 ± 3.0		13.4 ± 3.0	
	RDW-SD		38.4 ± 8.0		37.5 ± 8.0		40.0 ± 8.0	
	PLT × 10 ³ /μL		67 ± 20		243 ± 40		523 ± 60	
	MPV fL		9.2 ± 3.0		9.4 ± 3.0		9.3 ± 3.0	
	PCT % *		0.062 ± 0.050		0.228 ± 0.100		0.486 ± 0.200	
	PDW *		14.8 ± 3.0		15.1 ± 3.0		14.9 ± 3.0	
	Lymph %		57.7 ± 12.0		28.9 ± 9.0		15.1 ± 8.0	
	Mid %		11.2 ± 8.0		10.6 ± 7.0		6.3 ± 6.3	
	Gran %		31.1 ± 10.0		60.5 ± 10.0		78.6 ± 10.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.8		3.3 ± 1.8	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.9 ± 0.6		1.4 ± 1.4	
	Gran × 10 ³ /μL		0.7 ± 0.3		5.0 ± 0.9		17.1 ± 2.2	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+++
		LOT	B0525L	LOT	B0525N	LOT	B0525H	
BC-20s, BC-21s BC-30, BC-30s, BC-30e, BC-31, BC-31s	WBC × 10 ³ /μL		2.1 ± 0.5		8.0 ± 1.0		21.8 ± 2.5	
	RBC × 10 ⁶ /μL		2.21 ± 0.18		4.65 ± 0.24		5.76 ± 0.30	
	HGB g/dL		6.2 ± 0.4		14.0 ± 0.6		19.3 ± 0.8	
	HCT %		18.1 ± 1.5		40.1 ± 2.0		55.0 ± 2.4	
	MCV fL		82.1 ± 5.0		86.2 ± 5.0		95.4 ± 5.0	
	MCH pg		28.1 ± 2.5		30.1 ± 2.5		33.5 ± 2.5	
	MCHC g/dL		34.2 ± 3.0		34.9 ± 3.0		35.1 ± 3.0	
	RDW-CV		17.6 ± 3.0		15.0 ± 3.0		14.4 ± 3.0	
	RDW-SD		50.0 ± 8.0		45.1 ± 8.0		47.2 ± 8.0	
	PLT × 10 ³ /μL		68 ± 20		267 ± 40		569 ± 60	
	MPV fL		8.3 ± 3.0		8.2 ± 3.0		8.2 ± 3.0	
	PCT % *		0.056 ± 0.050		0.219 ± 0.100		0.467 ± 0.200	
	PDW *		15.9 ± 3.0		16.3 ± 3.0		16.6 ± 3.0	
	P-LCC		13 ± 10		48 ± 22		99 ± 30	
	P-LCR		18.6 ± 9.0		17.9 ± 9.0		17.4 ± 9.0	
	Lymph %		59.5 ± 12.0		29.2 ± 8.0		13.0 ± 8.0	
	Mid %		9.0 ± 8.0		5.9 ± 5.0		3.5 ± 3.0	
	Gran %		31.5 ± 12.0		64.9 ± 8.0		83.5 ± 9.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.3 ± 0.7		2.8 ± 1.8	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.5 ± 0.5		0.8 ± 0.7	
	Gran × 10 ³ /μL		0.7 ± 0.3		5.2 ± 0.7		18.2 ± 2.0	
BC-3600, BC-3300	WBC × 10 ³ /μL		2.1 ± 0.5		8.0 ± 1.0		21.4 ± 2.5	
	RBC × 10 ⁶ /μL		2.32 ± 0.18		4.89 ± 0.24		5.99 ± 0.30	
	HGB g/dL		6.3 ± 0.4		14.0 ± 0.6		19.4 ± 0.8	
	HCT %		18.5 ± 1.5		41.4 ± 2.0		55.7 ± 2.4	
	MCV fL		79.6 ± 5.0		84.7 ± 5.0		93.0 ± 5.0	
	MCH pg		27.2 ± 2.5		28.6 ± 2.5		32.4 ± 2.5	
	MCHC g/dL		34.1 ± 3.0		33.8 ± 3.0		34.8 ± 3.0	
	RDW-CV		17.5 ± 3.0		15.0 ± 3.0		14.3 ± 3.0	
	RDW-SD		42.0 ± 8.0		42.7 ± 8.0		46.4 ± 8.0	
	PLT × 10 ³ /μL		71 ± 20		257 ± 40		516 ± 60	
	MPV fL		8.4 ± 3.0		8.3 ± 3.0		8.3 ± 3.0	
	PCT % *		0.060 ± 0.050		0.213 ± 0.100		0.428 ± 0.200	
	PDW *		15.3 ± 3.0		15.7 ± 3.0		16.0 ± 3.0	
	P-LCC		18 ± 10		61 ± 22		120 ± 30	
	P-LCR		25.2 ± 9.0		23.9 ± 9.0		23.2 ± 9.0	
	Lymph %		55.7 ± 9.0		27.8 ± 8.0		14.0 ± 8.0	
	Mid %		12.7 ± 12.7		7.5 ± 7.5		2.6 ± 2.6	
	Gran %		31.6 ± 10.0		64.7 ± 8.0		83.4 ± 9.0	
	Lymph × 10 ³ /μL		1.2 ± 0.2		2.2 ± 0.7		3.0 ± 1.8	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.6 ± 0.6		0.6 ± 0.6	
	Gran × 10 ³ /μL		0.6 ± 0.2		5.2 ± 0.7		17.8 ± 2.0	

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Instrument	Parameter	Low	Normal	High	++++
		LOT B0525L	LOT B0525N	LOT B0525H	
BC-10, BC-10e, BC-11	WBC $\times 10^3/\mu\text{L}$	2.1 \pm 0.5	7.8 \pm 1.0	20.9 \pm 2.5	
BC-20, BC-21	RBC $\times 10^6/\mu\text{L}$	2.18 \pm 0.18	4.62 \pm 0.24	5.73 \pm 0.30	
	HGB g/dL	6.2 \pm 0.4	14.0 \pm 0.6	19.3 \pm 0.8	
	HCT %	17.6 \pm 1.5	39.6 \pm 2.0	53.7 \pm 2.4	
	MCV fL	80.6 \pm 5.0	85.7 \pm 5.0	93.7 \pm 5.0	
	MCH pg	28.4 \pm 2.5	30.3 \pm 2.5	33.7 \pm 2.5	
	MCHC g/dL	35.3 \pm 3.0	35.4 \pm 3.0	35.9 \pm 3.0	
	RDW-CV	17.6 \pm 3.0	15.8 \pm 3.0	15.3 \pm 3.0	
	RDW-SD	45.8 \pm 8.0	44.4 \pm 8.0	46.6 \pm 8.0	
	PLT $\times 10^3/\mu\text{L}$	64 \pm 20	243 \pm 40	512 \pm 60	
	MPV fL	8.7 \pm 3.0	8.6 \pm 3.0	8.7 \pm 3.0	
	PCT % *	0.056 \pm 0.050	0.209 \pm 0.100	0.445 \pm 0.200	
	PDW *	15.1 \pm 3.0	15.6 \pm 3.0	15.9 \pm 3.0	
	P-LCR	19.6 \pm 9.0	19.0 \pm 9.0	19.9 \pm 9.0	
	Lymph %	59.7 \pm 12.0	30.0 \pm 8.0	13.9 \pm 8.0	
	Mid %	8.8 \pm 7.0	5.8 \pm 4.5	3.3 \pm 2.5	
	Gran %	31.5 \pm 10.0	64.2 \pm 8.0	82.8 \pm 9.0	
	Lymph $\times 10^3/\mu\text{L}$	1.3 \pm 0.3	2.3 \pm 0.7	2.9 \pm 1.7	
	Mid $\times 10^3/\mu\text{L}$	0.2 \pm 0.2	0.5 \pm 0.4	0.7 \pm 0.6	
	Gran $\times 10^3/\mu\text{L}$	0.6 \pm 0.2	5.0 \pm 0.7	17.3 \pm 1.9	
BC-2800Vet, BC-2600Vet	WBC $\times 10^3/\mu\text{L}$	2.1 \pm 0.5	8.0 \pm 1.0	21.6 \pm 2.5	
(Software version 2.0 or higher)	RBC $\times 10^6/\mu\text{L}$	2.27 \pm 0.18	4.80 \pm 0.24	5.90 \pm 0.30	
	HGB g/dL	6.2 \pm 0.4	14.1 \pm 0.6	19.3 \pm 0.8	
	HCT %	17.6 \pm 1.5	40.6 \pm 2.0	55.7 \pm 2.4	
	MCV fL	77.4 \pm 5.0	84.6 \pm 5.0	94.4 \pm 5.0	
	MCH pg	27.3 \pm 2.5	29.4 \pm 2.5	32.7 \pm 2.5	
	MCHC g/dL	35.3 \pm 3.0	34.7 \pm 3.0	34.7 \pm 3.0	
	PLT $\times 10^3/\mu\text{L}$	68 \pm 20	244 \pm 40	498 \pm 60	

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