

BC-3D**HEMATOLOGY CONTROLS****CONTROL****LOT B1124****2025-02-05**

ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+
		LOT	B1124L	LOT	B1124N	LOT	B1124H	
BC-3200, BC-3000CT	WBC × 10 ³ /μL		2.1 ± 0.5		7.7 ± 1.0		21.5 ± 2.5	
	RBC × 10 ⁶ /μL		2.39 ± 0.18		4.67 ± 0.24		5.83 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.7 ± 0.6		19.0 ± 0.8	
	HCT %		18.3 ± 1.5		40.7 ± 2.0		56.0 ± 2.4	
	MCV fL		76.5 ± 5.0		87.1 ± 5.0		96.0 ± 5.0	
	MCH pg		25.5 ± 2.5		29.3 ± 2.5		32.6 ± 2.5	
	MCHC g/dL		33.4 ± 3.0		33.7 ± 3.0		33.9 ± 3.0	
	RDW-CV		14.7 ± 3.0		14.0 ± 3.0		13.1 ± 3.0	
	RDW-SD		38.1 ± 6.0		41.1 ± 6.0		41.8 ± 8.0	
	PLT × 10 ³ /μL		74 ± 20		257 ± 40		513 ± 60	
	MPV fL		8.1 ± 3.0		7.5 ± 3.0		7.3 ± 3.0	
	Lymph %		56.7 ± 12.0		30.8 ± 8.0		15.1 ± 6.0	
	Mid %		12.0 ± 10.0		6.6 ± 5.0		4.7 ± 4.0	
	Gran %		31.3 ± 9.0		62.6 ± 8.0		80.2 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.7		3.2 ± 1.3	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.5 ± 0.4		1.0 ± 0.9	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.8 ± 0.7		17.3 ± 1.8	
BC-3000 Plus, BC-2900, BC-1800	WBC × 10 ³ /μL		2.1 ± 0.5		7.5 ± 1.0		20.7 ± 2.5	
	RBC × 10 ⁶ /μL		2.43 ± 0.18		4.68 ± 0.24		5.82 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.8 ± 0.6		19.1 ± 0.8	
	HCT %		18.2 ± 1.5		40.5 ± 2.0		55.2 ± 2.4	
	MCV fL		75.0 ± 5.0		86.5 ± 5.0		94.9 ± 5.0	
	MCH pg		25.1 ± 2.5		29.5 ± 2.5		32.8 ± 2.5	
	MCHC g/dL		33.5 ± 3.0		34.1 ± 3.0		34.6 ± 3.0	
	RDW-CV		16.4 ± 3.0		15.4 ± 3.0		14.3 ± 3.0	
	RDW-SD		41.9 ± 6.0		45.9 ± 6.0		46.5 ± 8.0	
	PLT × 10 ³ /μL		71 ± 20		255 ± 40		517 ± 60	
	MPV fL		8.1 ± 3.0		7.7 ± 3.0		7.6 ± 3.0	
	PCT % *		0.058 ± 0.050		0.196 ± 0.100		0.393 ± 0.200	
	PDW *		16.6 ± 3.0		15.8 ± 3.0		15.7 ± 3.0	
	Lymph %		58.1 ± 12.0		32.0 ± 8.0		15.7 ± 6.0	
	Mid %		12.2 ± 10.0		6.6 ± 5.0		4.9 ± 4.0	
	Gran %		29.7 ± 9.0		61.4 ± 8.0		79.4 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.6		3.2 ± 1.3	
	Mid × 10 ³ /μL		0.3 ± 0.3		0.5 ± 0.4		1.0 ± 0.9	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.6 ± 0.6		16.5 ± 1.7	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++
		LOT	B1124L	LOT	B1124N	LOT	B1124H	
BC-2800, BC-2600 (Software version 2.0 or higher)	WBC × 10 ³ /μL		2.0 ± 0.5		7.3 ± 1.0		20.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.33 ± 0.18		4.64 ± 0.24		5.82 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.8 ± 0.6		19.1 ± 0.8	
	HCT %		17.5 ± 1.5		39.9 ± 2.0		55.8 ± 2.4	
	MCV fL		75.3 ± 5.0		86.0 ± 5.0		95.9 ± 5.0	
	MCH pg		26.2 ± 2.5		29.7 ± 2.5		32.8 ± 2.5	
	MCHC g/dL		34.8 ± 3.0		34.6 ± 3.0		34.2 ± 3.0	
	RDW-CV		16.0 ± 3.0		14.1 ± 3.0		13.3 ± 3.0	
	RDW-SD		40.8 ± 6.0		41.5 ± 6.0		42.3 ± 8.0	
	PLT × 10 ³ /μL		59 ± 20		250 ± 40		510 ± 60	
	MPV fL		9.6 ± 3.0		9.3 ± 3.0		9.2 ± 3.0	
	PCT % *		0.057 ± 0.050		0.233 ± 0.100		0.469 ± 0.200	
	PDW *		15.0 ± 3.0		14.8 ± 3.0		14.7 ± 3.0	
	Lymph %		61.1 ± 12.0		33.9 ± 8.0		16.8 ± 7.0	
	Mid %		9.7 ± 8.0		5.2 ± 4.0		4.1 ± 4.0	
	Gran %		29.2 ± 10.0		60.9 ± 9.0		79.1 ± 8.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.5 ± 0.6		3.5 ± 1.5	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.4 ± 0.3		0.8 ± 0.8	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.4 ± 0.7		16.3 ± 1.7	
BC-2300, BC-2100	WBC × 10 ³ /μL		2.0 ± 0.5		7.2 ± 1.0		21.1 ± 2.5	
	RBC × 10 ⁶ /μL		2.33 ± 0.18		4.60 ± 0.24		5.75 ± 0.30	
	HGB g/dL		6.2 ± 0.4		13.7 ± 0.6		18.9 ± 0.8	
	HCT %		17.4 ± 1.5		39.7 ± 2.0		54.7 ± 2.4	
	MCV fL		74.5 ± 5.0		86.4 ± 5.0		95.1 ± 5.0	
	MCH pg		26.6 ± 2.5		29.8 ± 2.5		32.9 ± 2.5	
	MCHC g/dL		35.7 ± 3.0		34.5 ± 3.0		34.6 ± 3.0	
	RDW-CV		14.8 ± 3.0		13.5 ± 3.0		12.5 ± 3.0	
	RDW-SD		35.1 ± 8.0		37.2 ± 8.0		38.2 ± 8.0	
	PLT × 10 ³ /μL		55 ± 20		249 ± 40		546 ± 60	
	MPV fL		9.4 ± 3.0		9.6 ± 3.0		9.6 ± 3.0	
	PCT % *		0.052 ± 0.050		0.239 ± 0.100		0.524 ± 0.200	
	PDW *		14.8 ± 3.0		14.9 ± 3.0		15.0 ± 3.0	
	Lymph %		60.1 ± 12.0		33.4 ± 9.0		16.9 ± 8.0	
	Mid %		9.3 ± 8.0		7.3 ± 7.0		7.6 ± 7.0	
	Gran %		30.6 ± 10.0		59.3 ± 10.0		75.5 ± 10.0	
	Lymph × 10 ³ /μL		1.2 ± 0.3		2.4 ± 0.7		3.6 ± 1.7	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.5 ± 0.5		1.6 ± 1.5	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.3 ± 0.8		15.9 ± 2.1	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+++
		LOT	B1124L	LOT	B1124N	LOT	B1124H	
BC-20s, BC-21s BC-30, BC-30s, BC-30e, BC-31, BC-31s	WBC × 10 ³ /μL		2.1 ± 0.5		7.3 ± 1.0		21.0 ± 2.5	
	RBC × 10 ⁶ /μL		2.32 ± 0.18		4.55 ± 0.24		5.71 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.7 ± 0.6		18.9 ± 0.8	
	HCT %		18.0 ± 1.5		40.0 ± 2.0		54.4 ± 2.4	
	MCV fL		77.7 ± 5.0		87.9 ± 5.0		95.2 ± 5.0	
	MCH pg		26.3 ± 2.5		30.1 ± 2.5		33.1 ± 2.5	
	MCHC g/dL		33.8 ± 3.0		34.3 ± 3.0		34.8 ± 3.0	
	RDW-CV		16.2 ± 3.0		14.6 ± 3.0		13.6 ± 3.0	
	RDW-SD		43.8 ± 8.0		44.8 ± 8.0		45.3 ± 8.0	
	PLT × 10 ³ /μL		59 ± 20		259 ± 40		569 ± 60	
	MPV fL		8.4 ± 3.0		8.8 ± 3.0		8.7 ± 3.0	
	PCT % *		0.050 ± 0.050		0.228 ± 0.100		0.495 ± 0.200	
	PDW *		15.9 ± 3.0		16.2 ± 3.0		16.6 ± 3.0	
	P-LCC		13 ± 10		54 ± 22		116 ± 30	
	P-LCR		21.4 ± 9.0		20.7 ± 9.0		20.3 ± 9.0	
	Lymph %		62.0 ± 12.0		33.7 ± 8.0		15.8 ± 8.0	
	Mid %		9.5 ± 8.0		5.8 ± 4.0		5.3 ± 5.0	
	Gran %		28.5 ± 12.0		60.5 ± 8.0		78.9 ± 9.0	
	Lymph × 10 ³ /μL		1.3 ± 0.3		2.5 ± 0.6		3.3 ± 1.7	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.4 ± 0.3		1.1 ± 1.1	
	Gran × 10 ³ /μL		0.6 ± 0.3		4.4 ± 0.6		16.6 ± 1.9	
BC-3600, BC-3300	WBC × 10 ³ /μL		2.0 ± 0.5		7.2 ± 1.0		20.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.43 ± 0.18		4.75 ± 0.24		5.90 ± 0.30	
	HGB g/dL		6.2 ± 0.4		13.6 ± 0.6		18.9 ± 0.8	
	HCT %		18.6 ± 1.5		40.8 ± 2.0		55.3 ± 2.4	
	MCV fL		76.6 ± 5.0		85.8 ± 5.0		93.8 ± 5.0	
	MCH pg		25.5 ± 2.5		28.6 ± 2.5		32.0 ± 2.5	
	MCHC g/dL		33.3 ± 3.0		33.4 ± 3.0		34.2 ± 3.0	
	RDW-CV		16.3 ± 3.0		14.6 ± 3.0		13.6 ± 3.0	
	RDW-SD		36.3 ± 8.0		39.3 ± 8.0		41.8 ± 8.0	
	PLT × 10 ³ /μL		64 ± 20		257 ± 40		531 ± 60	
	MPV fL		8.6 ± 3.0		8.7 ± 3.0		8.7 ± 3.0	
	PCT % *		0.055 ± 0.050		0.224 ± 0.100		0.462 ± 0.200	
	PDW *		15.3 ± 3.0		15.6 ± 3.0		15.9 ± 3.0	
	P-LCC		17 ± 10		70 ± 22		142 ± 30	
	P-LCR		26.9 ± 9.0		27.2 ± 9.0		26.7 ± 9.0	
	Lymph %		59.2 ± 9.0		33.2 ± 8.0		15.9 ± 8.0	
	Mid %		11.6 ± 11.6		5.8 ± 5.8		3.5 ± 3.5	
	Gran %		29.2 ± 10.0		61.0 ± 8.0		80.6 ± 9.0	
	Lymph × 10 ³ /μL		1.2 ± 0.2		2.4 ± 0.6		3.3 ± 1.7	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.4 ± 0.4		0.7 ± 0.7	
	Gran × 10 ³ /μL		0.6 ± 0.2		4.4 ± 0.6		16.6 ± 1.9	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++++
		LOT	B1124L	LOT	B1124N	LOT	B1124H	
BC-10, BC-10e, BC-11	WBC × 10 ³ /μL		2.0 ± 0.5		7.2 ± 1.0		20.2 ± 2.5	
	RBC × 10 ⁶ /μL		2.28 ± 0.18		4.54 ± 0.24		5.66 ± 0.30	
BC-20, BC-21	HGB g/dL		6.1 ± 0.4		13.8 ± 0.6		18.8 ± 0.8	
	HCT %		17.6 ± 1.5		39.5 ± 2.0		53.3 ± 2.4	
	MCV fL		77.3 ± 5.0		87.1 ± 5.0		94.2 ± 5.0	
	MCH pg		26.8 ± 2.5		30.4 ± 2.5		33.2 ± 2.5	
	MCHC g/dL		34.6 ± 3.0		34.9 ± 3.0		35.3 ± 3.0	
	RDW-CV		16.8 ± 3.0		15.5 ± 3.0		14.6 ± 3.0	
	RDW-SD		43.5 ± 8.0		44.6 ± 8.0		44.3 ± 8.0	
	PLT × 10 ³ /μL		55 ± 20		241 ± 40		513 ± 60	
	MPV fL		9.0 ± 3.0		8.9 ± 3.0		9.0 ± 3.0	
	PCT % *		0.050 ± 0.050		0.214 ± 0.100		0.462 ± 0.200	
	PDW *		15.2 ± 3.0		15.5 ± 3.0		16.0 ± 3.0	
	P-LCR		23.4 ± 9.0		20.9 ± 9.0		21.9 ± 9.0	
	Lymph %		63.0 ± 12.0		34.1 ± 8.0		16.5 ± 8.0	
	Mid %		9.2 ± 7.0		5.6 ± 4.0		5.2 ± 4.0	
	Gran %		27.8 ± 10.0		60.3 ± 8.0		78.3 ± 9.0	
	Lymph × 10 ³ /μL		1.3 ± 0.3		2.5 ± 0.6		3.3 ± 1.6	
	Mid × 10 ³ /μL		0.2 ± 0.2		0.4 ± 0.3		1.1 ± 0.9	
	Gran × 10 ³ /μL		0.5 ± 0.2		4.3 ± 0.6		15.8 ± 1.9	
BC-2800Vet, BC-2600Vet	WBC × 10 ³ /μL		2.0 ± 0.5		7.3 ± 1.0		20.6 ± 2.5	
	RBC × 10 ⁶ /μL		2.33 ± 0.18		4.64 ± 0.24		5.82 ± 0.30	
(Software version 2.0 or higher)	HGB g/dL		6.1 ± 0.4		13.8 ± 0.6		19.1 ± 0.8	
	HCT %		17.5 ± 1.5		39.9 ± 2.0		55.8 ± 2.4	
	MCV fL		75.3 ± 5.0		86.0 ± 5.0		95.9 ± 5.0	
	MCH pg		26.2 ± 2.5		29.7 ± 2.5		32.8 ± 2.5	
	MCHC g/dL		34.8 ± 3.0		34.6 ± 3.0		34.2 ± 3.0	
	PLT × 10 ³ /μL		59 ± 20		250 ± 40		510 ± 60	

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