

**BC-3D****HEMATOLOGY CONTROLS****CONTROL****LOT B0824****2024-11-05**

## ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+
		LOT	B0824L	LOT	B0824N	LOT	B0824H	
<b>BC-3200, BC-3000CT</b>	WBC × 10 <sup>3</sup> /μL		2.1 ± 0.5		8.4 ± 1.0		22.1 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.25 ± 0.18		4.64 ± 0.24		5.69 ± 0.30	
	HGB g/dL		6.0 ± 0.4		13.9 ± 0.6		18.8 ± 0.8	
	HCT %		17.9 ± 1.5		40.8 ± 2.0		55.1 ± 2.4	
	MCV fL		79.4 ± 5.0		88.0 ± 5.0		96.8 ± 5.0	
	MCH pg		26.7 ± 2.5		30.0 ± 2.5		33.0 ± 2.5	
	MCHC g/dL		33.6 ± 3.0		34.0 ± 3.0		34.1 ± 3.0	
	RDW-CV		15.1 ± 3.0		14.4 ± 3.0		13.9 ± 3.0	
	RDW-SD		39.3 ± 6.0		40.9 ± 6.0		43.7 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		76 ± 20		249 ± 40		495 ± 60	
	MPV fL		8.3 ± 3.0		7.5 ± 3.0		7.4 ± 3.0	
	Lymph %		59.1 ± 12.0		27.5 ± 8.0		11.8 ± 6.0	
	Mid %		10.1 ± 8.0		9.2 ± 8.0		7.8 ± 6.0	
	Gran %		30.8 ± 9.0		63.3 ± 8.0		80.4 ± 8.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.3 ± 0.7		2.6 ± 1.4	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.8 ± 0.7		1.7 ± 1.3	
	Gran × 10 <sup>3</sup> /μL		0.7 ± 0.2		5.3 ± 0.7		17.8 ± 1.8	
<b>BC-3000 Plus, BC-2900, BC-1800</b>	WBC × 10 <sup>3</sup> /μL		2.1 ± 0.5		8.2 ± 1.0		21.2 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.30 ± 0.18		4.77 ± 0.24		5.82 ± 0.30	
	HGB g/dL		6.0 ± 0.4		14.1 ± 0.6		19.1 ± 0.8	
	HCT %		17.9 ± 1.5		41.5 ± 2.0		55.5 ± 2.4	
	MCV fL		77.7 ± 5.0		87.1 ± 5.0		95.4 ± 5.0	
	MCH pg		26.1 ± 2.5		29.6 ± 2.5		32.8 ± 2.5	
	MCHC g/dL		33.6 ± 3.0		33.9 ± 3.0		34.4 ± 3.0	
	RDW-CV		17.1 ± 3.0		15.8 ± 3.0		14.8 ± 3.0	
	RDW-SD		42.7 ± 6.0		45.1 ± 6.0		47.5 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		73 ± 20		249 ± 40		501 ± 60	
	MPV fL		8.5 ± 3.0		7.8 ± 3.0		7.7 ± 3.0	
	PCT % *		0.062 ± 0.050		0.194 ± 0.100		0.386 ± 0.200	
	PDW *		16.4 ± 3.0		15.8 ± 3.0		15.8 ± 3.0	
	Lymph %		59.6 ± 12.0		28.4 ± 8.0		11.9 ± 6.0	
	Mid %		10.5 ± 9.0		9.5 ± 7.0		8.6 ± 6.0	
	Gran %		29.9 ± 9.0		62.1 ± 8.0		79.5 ± 8.0	
	Lymph × 10 <sup>3</sup> /μL		1.3 ± 0.3		2.3 ± 0.7		2.5 ± 1.3	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.8 ± 0.6		1.8 ± 1.3	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		5.1 ± 0.7		16.9 ± 1.7	

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## ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++
		LOT	B0824L	LOT	B0824N	LOT	B0824H	
<b>BC-2800, BC-2600</b> (Software version 2.0 or higher)	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.2 ± 1.0		21.7 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.21 ± 0.18		4.70 ± 0.24		5.80 ± 0.30	
	HGB g/dL		5.9 ± 0.4		14.0 ± 0.6		19.1 ± 0.8	
	HCT %		17.1 ± 1.5		41.0 ± 2.0		56.1 ± 2.4	
	MCV fL		77.3 ± 5.0		87.3 ± 5.0		96.7 ± 5.0	
	MCH pg		26.7 ± 2.5		29.8 ± 2.5		32.9 ± 2.5	
	MCHC g/dL		34.5 ± 3.0		34.1 ± 3.0		34.1 ± 3.0	
	RDW-CV		16.4 ± 3.0		14.8 ± 3.0		14.4 ± 3.0	
	RDW-SD		42.8 ± 6.0		42.2 ± 6.0		44.7 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		68 ± 20		247 ± 40		498 ± 60	
	MPV fL		9.7 ± 3.0		9.4 ± 3.0		9.2 ± 3.0	
	PCT % *		0.066 ± 0.050		0.232 ± 0.100		0.458 ± 0.200	
	PDW *		15.0 ± 3.0		14.8 ± 3.0		14.7 ± 3.0	
	Lymph %		61.0 ± 12.0		30.0 ± 8.0		13.9 ± 7.0	
	Mid %		9.4 ± 7.0		7.5 ± 5.0		6.3 ± 4.0	
	Gran %		29.6 ± 10.0		62.5 ± 9.0		79.8 ± 8.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.5 ± 0.7		3.0 ± 1.6	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.6 ± 0.4		1.4 ± 0.9	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		5.1 ± 0.8		17.3 ± 1.8	
<b>BC-2300, BC-2100</b>	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.1 ± 1.0		21.3 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.22 ± 0.18		4.60 ± 0.24		5.61 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.7 ± 0.6		18.6 ± 0.8	
	HCT %		17.2 ± 1.5		40.1 ± 2.0		53.6 ± 2.4	
	MCV fL		77.7 ± 5.0		87.2 ± 5.0		95.5 ± 5.0	
	MCH pg		27.5 ± 2.5		29.8 ± 2.5		33.2 ± 2.5	
	MCHC g/dL		35.4 ± 3.0		34.2 ± 3.0		34.7 ± 3.0	
	RDW-CV		14.7 ± 3.0		13.2 ± 3.0		12.7 ± 3.0	
	RDW-SD		36.1 ± 8.0		36.1 ± 8.0		38.4 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		65 ± 20		249 ± 40		533 ± 60	
	MPV fL		10.2 ± 3.0		9.9 ± 3.0		9.7 ± 3.0	
	PCT % *		0.066 ± 0.050		0.247 ± 0.100		0.517 ± 0.200	
	PDW *		15.1 ± 3.0		15.0 ± 3.0		15.0 ± 3.0	
	Lymph %		59.4 ± 12.0		31.0 ± 9.0		14.4 ± 8.0	
	Mid %		9.4 ± 8.0		12.5 ± 7.0		9.7 ± 7.0	
	Gran %		31.2 ± 10.0		56.5 ± 10.0		75.9 ± 10.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.5 ± 0.8		3.1 ± 1.8	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		1.0 ± 0.6		2.1 ± 1.6	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		4.6 ± 0.9		16.1 ± 2.2	

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## ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+++
		LOT	B0824L	LOT	B0824N	LOT	B0824H	
<b>BC-20s, BC-21s</b> <b>BC-30, BC-30s, BC-30e,</b> <b>BC-31, BC-31s</b>	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.0 ± 1.0		21.7 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.17 ± 0.18		4.60 ± 0.24		5.66 ± 0.30	
	HGB g/dL		6.0 ± 0.4		14.1 ± 0.6		18.9 ± 0.8	
	HCT %		17.6 ± 1.5		40.9 ± 2.0		54.4 ± 2.4	
	MCV fL		81.3 ± 5.0		88.9 ± 5.0		96.2 ± 5.0	
	MCH pg		27.6 ± 2.5		30.7 ± 2.5		33.4 ± 2.5	
	MCHC g/dL		34.0 ± 3.0		34.5 ± 3.0		34.7 ± 3.0	
	RDW-CV		16.7 ± 3.0		14.8 ± 3.0		14.5 ± 3.0	
	RDW-SD		47.3 ± 8.0		46.4 ± 8.0		48.5 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		61 ± 20		254 ± 40		553 ± 60	
	MPV fL		9.0 ± 3.0		8.7 ± 3.0		8.8 ± 3.0	
	PCT % *		0.055 ± 0.050		0.221 ± 0.100		0.487 ± 0.200	
	PDW *		15.8 ± 3.0		16.3 ± 3.0		16.7 ± 3.0	
	P-LCC		14 ± 10		53 ± 22		115 ± 30	
	P-LCR		23.3 ± 9.0		21.0 ± 9.0		20.8 ± 9.0	
	Lymph %		64.9 ± 12.0		30.4 ± 8.0		12.8 ± 8.0	
	Mid %		7.1 ± 6.0		8.4 ± 7.0		8.5 ± 7.0	
	Gran %		28.0 ± 10.0		61.2 ± 8.0		78.7 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL		1.3 ± 0.3		2.4 ± 0.7		2.8 ± 1.8	
	Mid × 10 <sup>3</sup> /μL		0.1 ± 0.1		0.7 ± 0.6		1.8 ± 1.5	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.3		4.9 ± 0.7		17.1 ± 2.0	
<b>BC-3600, BC-3300</b>	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.1 ± 1.0		21.3 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.28 ± 0.18		4.80 ± 0.24		5.87 ± 0.30	
	HGB g/dL		6.0 ± 0.4		13.9 ± 0.6		18.9 ± 0.8	
	HCT %		17.9 ± 1.5		41.3 ± 2.0		55.1 ± 2.4	
	MCV fL		78.7 ± 5.0		86.0 ± 5.0		93.8 ± 5.0	
	MCH pg		26.3 ± 2.5		29.0 ± 2.5		32.2 ± 2.5	
	MCHC g/dL		33.4 ± 3.0		33.7 ± 3.0		34.3 ± 3.0	
	RDW-CV		16.9 ± 3.0		15.0 ± 3.0		14.6 ± 3.0	
	RDW-SD		38.5 ± 8.0		41.3 ± 8.0		45.2 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		65 ± 20		247 ± 40		511 ± 60	
	MPV fL		9.0 ± 3.0		8.7 ± 3.0		8.6 ± 3.0	
	PCT % *		0.059 ± 0.050		0.215 ± 0.100		0.439 ± 0.200	
	PDW *		15.3 ± 3.0		15.6 ± 3.0		16.0 ± 3.0	
	P-LCC		20 ± 10		68 ± 22		140 ± 30	
	P-LCR		30.3 ± 9.0		27.6 ± 9.0		27.3 ± 9.0	
	Lymph %		59.5 ± 9.0		29.5 ± 8.0		13.7 ± 8.0	
	Mid %		11.5 ± 11.5		8.6 ± 8.6		6.9 ± 6.9	
	Gran %		29.0 ± 10.0		61.9 ± 8.0		79.4 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.2		2.4 ± 0.7		2.9 ± 1.7	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.7 ± 0.7		1.5 ± 1.5	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		5.0 ± 0.7		16.9 ± 2.0	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low	Normal	High	++++
		<b>LOT B0824L</b>	<b>LOT B0824N</b>	<b>LOT B0824H</b>	
<b>BC-10, BC-10e, BC-11</b>	WBC × 10 <sup>3</sup> /μL	2.0 ± 0.5	7.9 ± 1.0	20.9 ± 2.5	
<b>BC-20, BC-21</b>	RBC × 10 <sup>6</sup> /μL	2.17 ± 0.18	4.61 ± 0.24	5.67 ± 0.30	
	HGB g/dL	6.0 ± 0.4	13.9 ± 0.6	18.8 ± 0.8	
	HCT %	17.5 ± 1.5	40.6 ± 2.0	54.1 ± 2.4	
	MCV fL	80.6 ± 5.0	88.0 ± 5.0	95.4 ± 5.0	
	MCH pg	27.6 ± 2.5	30.2 ± 2.5	33.2 ± 2.5	
	MCHC g/dL	34.3 ± 3.0	34.3 ± 3.0	34.8 ± 3.0	
	RDW-CV	16.9 ± 3.0	15.4 ± 3.0	14.8 ± 3.0	
	RDW-SD	44.5 ± 8.0	44.6 ± 8.0	46.0 ± 8.0	
	PLT × 10 <sup>3</sup> /μL	61 ± 20	238 ± 40	507 ± 60	
	MPV fL	9.5 ± 3.0	9.1 ± 3.0	8.9 ± 3.0	
	PCT % *	0.058 ± 0.050	0.217 ± 0.100	0.451 ± 0.200	
	PDW *	15.1 ± 3.0	15.5 ± 3.0	15.9 ± 3.0	
	P-LCR	24.6 ± 9.0	22.7 ± 9.0	21.6 ± 9.0	
	Lymph %	63.4 ± 12.0	31.0 ± 8.0	13.4 ± 8.0	
	Mid %	8.2 ± 7.0	8.2 ± 6.0	8.2 ± 6.0	
	Gran %	28.4 ± 10.0	60.8 ± 8.0	78.4 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL	1.3 ± 0.3	2.4 ± 0.7	2.8 ± 1.7	
	Mid × 10 <sup>3</sup> /μL	0.2 ± 0.2	0.6 ± 0.5	1.7 ± 1.3	
	Gran × 10 <sup>3</sup> /μL	0.5 ± 0.2	4.9 ± 0.7	16.4 ± 1.9	
<b>BC-2800Vet, BC-2600Vet</b>	WBC × 10 <sup>3</sup> /μL	2.0 ± 0.5	8.2 ± 1.0	21.7 ± 2.5	
<b>(Software version 2.0 or higher)</b>	RBC × 10 <sup>6</sup> /μL	2.21 ± 0.18	4.70 ± 0.24	5.80 ± 0.30	
	HGB g/dL	5.9 ± 0.4	14.0 ± 0.6	19.1 ± 0.8	
	HCT %	17.1 ± 1.5	41.0 ± 2.0	56.1 ± 2.4	
	MCV fL	77.3 ± 5.0	87.3 ± 5.0	96.7 ± 5.0	
	MCH pg	26.7 ± 2.5	29.8 ± 2.5	32.9 ± 2.5	
	MCHC g/dL	34.5 ± 3.0	34.1 ± 3.0	34.1 ± 3.0	
	PLT × 10 <sup>3</sup> /μL	68 ± 20	247 ± 40	498 ± 60	

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**Mindray**

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