

**BC-3D****HEMATOLOGY CONTROLS****CONTROL****LOT B0825****2025-11-05**

## ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+
		LOT	B0825L	LOT	B0825N	LOT	B0825H	
<b>BC-3200, BC-3000CT</b>	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.6 ± 1.0		23.2 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.28 ± 0.18		4.70 ± 0.24		5.73 ± 0.30	
	HGB g/dL		6.0 ± 0.4		13.9 ± 0.6		18.6 ± 0.8	
	HCT %		18.1 ± 1.5		41.1 ± 2.0		55.0 ± 2.4	
	MCV fL		79.4 ± 5.0		87.4 ± 5.0		95.9 ± 5.0	
	MCH pg		26.3 ± 2.5		29.6 ± 2.5		32.5 ± 2.5	
	MCHC g/dL		33.1 ± 3.0		33.8 ± 3.0		33.8 ± 3.0	
	RDW-CV		15.1 ± 3.0		14.2 ± 3.0		13.7 ± 3.0	
	RDW-SD		40.6 ± 6.0		41.1 ± 6.0		43.6 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		72 ± 20		254 ± 40		521 ± 60	
	MPV fL		8.2 ± 3.0		7.3 ± 3.0		7.4 ± 3.0	
	Lymph %		55.2 ± 12.0		28.0 ± 8.0		12.8 ± 6.0	
	Mid %		9.9 ± 9.0		7.9 ± 7.0		5.0 ± 4.0	
	Gran %		34.9 ± 9.0		64.1 ± 8.0		82.2 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL		1.1 ± 0.3		2.4 ± 0.7		3.0 ± 1.4	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.7 ± 0.7		1.2 ± 1.0	
	Gran × 10 <sup>3</sup> /μL		0.7 ± 0.2		5.5 ± 0.7		19.0 ± 2.1	
<b>BC-3000 Plus, BC-2900, BC-1800</b>	WBC × 10 <sup>3</sup> /μL		2.1 ± 0.5		8.3 ± 1.0		22.1 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.31 ± 0.18		4.69 ± 0.24		5.77 ± 0.30	
	HGB g/dL		6.1 ± 0.4		14.0 ± 0.6		18.9 ± 0.8	
	HCT %		18.0 ± 1.5		40.6 ± 2.0		53.9 ± 2.4	
	MCV fL		78.0 ± 5.0		86.5 ± 5.0		93.5 ± 5.0	
	MCH pg		26.4 ± 2.5		29.9 ± 2.5		32.8 ± 2.5	
	MCHC g/dL		33.9 ± 3.0		34.5 ± 3.0		35.0 ± 3.0	
	RDW-CV		16.5 ± 3.0		15.3 ± 3.0		14.8 ± 3.0	
	RDW-SD		43.2 ± 6.0		44.8 ± 6.0		47.0 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		74 ± 20		255 ± 40		519 ± 60	
	MPV fL		8.3 ± 3.0		7.5 ± 3.0		7.7 ± 3.0	
	PCT % *		0.061 ± 0.050		0.191 ± 0.100		0.400 ± 0.200	
	PDW *		16.3 ± 3.0		15.9 ± 3.0		15.9 ± 3.0	
	Lymph %		56.0 ± 12.0		28.6 ± 8.0		12.9 ± 6.0	
	Mid %		10.6 ± 9.0		8.0 ± 7.0		5.2 ± 5.0	
	Gran %		33.4 ± 9.0		63.4 ± 8.0		81.9 ± 8.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.4 ± 0.7		2.9 ± 1.4	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.7 ± 0.7		1.1 ± 1.1	
	Gran × 10 <sup>3</sup> /μL		0.7 ± 0.2		5.2 ± 0.7		18.1 ± 1.8	

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## ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++
		LOT	B0825L	LOT	B0825N	LOT	B0825H	
<b>BC-2800, BC-2600</b> (Software version 2.0 or higher)	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.1 ± 1.0		22.1 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.21 ± 0.18		4.65 ± 0.24		5.79 ± 0.30	
	HGB g/dL		6.1 ± 0.4		14.0 ± 0.6		18.9 ± 0.8	
	HCT %		17.3 ± 1.5		40.5 ± 2.0		54.8 ± 2.4	
	MCV fL		78.5 ± 5.0		87.2 ± 5.0		94.7 ± 5.0	
	MCH pg		27.6 ± 2.5		30.1 ± 2.5		32.6 ± 2.5	
	MCHC g/dL		35.2 ± 3.0		34.5 ± 3.0		34.5 ± 3.0	
	RDW-CV		16.1 ± 3.0		14.4 ± 3.0		14.2 ± 3.0	
	RDW-SD		42.6 ± 6.0		42.7 ± 6.0		44.7 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		64 ± 20		243 ± 40		516 ± 60	
	MPV fL		9.8 ± 3.0		9.2 ± 3.0		9.3 ± 3.0	
	PCT % *		0.063 ± 0.050		0.224 ± 0.100		0.480 ± 0.200	
	PDW *		15.0 ± 3.0		14.8 ± 3.0		14.9 ± 3.0	
	Lymph %		59.2 ± 12.0		30.4 ± 8.0		14.4 ± 7.0	
	Mid %		8.6 ± 7.0		6.7 ± 6.0		4.2 ± 3.0	
	Gran %		32.2 ± 10.0		62.9 ± 9.0		81.4 ± 8.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.5 ± 0.7		3.2 ± 1.6	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.5 ± 0.5		0.9 ± 0.7	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		5.1 ± 0.8		18.0 ± 1.8	
<b>BC-2300, BC-2100</b>	WBC × 10 <sup>3</sup> /μL		1.9 ± 0.5		8.1 ± 1.0		22.2 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.20 ± 0.18		4.55 ± 0.24		5.67 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.7 ± 0.6		18.3 ± 0.8	
	HCT %		17.1 ± 1.5		39.4 ± 2.0		53.4 ± 2.4	
	MCV fL		77.7 ± 5.0		86.7 ± 5.0		94.1 ± 5.0	
	MCH pg		27.7 ± 2.5		30.1 ± 2.5		32.3 ± 2.5	
	MCHC g/dL		35.7 ± 3.0		34.7 ± 3.0		34.3 ± 3.0	
	RDW-CV		14.9 ± 3.0		13.2 ± 3.0		13.5 ± 3.0	
	RDW-SD		36.6 ± 8.0		36.1 ± 8.0		39.6 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		62 ± 20		231 ± 40		535 ± 60	
	MPV fL		9.7 ± 3.0		9.4 ± 3.0		9.7 ± 3.0	
	PCT % *		0.060 ± 0.050		0.217 ± 0.100		0.519 ± 0.200	
	PDW *		15.0 ± 3.0		15.0 ± 3.0		15.1 ± 3.0	
	Lymph %		58.7 ± 12.0		30.6 ± 9.0		14.5 ± 8.0	
	Mid %		8.9 ± 8.0		9.5 ± 7.0		8.7 ± 7.0	
	Gran %		32.4 ± 10.0		59.9 ± 10.0		76.8 ± 10.0	
	Lymph × 10 <sup>3</sup> /μL		1.1 ± 0.3		2.5 ± 0.8		3.2 ± 1.8	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.8 ± 0.6		1.9 ± 1.6	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		4.8 ± 0.8		17.1 ± 2.3	

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## ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		+++
		LOT	B0825L	LOT	B0825N	LOT	B0825H	
<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		22.2 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.19 ± 0.18		4.55 ± 0.24		5.65 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.9 ± 0.6		18.5 ± 0.8	
	HCT %		17.8 ± 1.5		40.3 ± 2.0		53.1 ± 2.4	
	MCV fL		81.4 ± 5.0		88.5 ± 5.0		94.0 ± 5.0	
	MCH pg		27.9 ± 2.5		30.5 ± 2.5		32.7 ± 2.5	
	MCHC g/dL		34.2 ± 3.0		34.5 ± 3.0		34.8 ± 3.0	
	RDW-CV		16.5 ± 3.0		15.2 ± 3.0		14.9 ± 3.0	
	RDW-SD		47.3 ± 8.0		47.6 ± 8.0		48.8 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		60 ± 20		258 ± 40		563 ± 60	
	MPV fL		8.8 ± 3.0		8.4 ± 3.0		8.7 ± 3.0	
	PCT % *		0.053 ± 0.050		0.217 ± 0.100		0.490 ± 0.200	
	PDW *		16.0 ± 3.0		16.2 ± 3.0		16.7 ± 3.0	
	P-LCC		14 ± 10		47 ± 22		120 ± 30	
	P-LCR		22.5 ± 9.0		18.2 ± 9.0		21.4 ± 9.0	
	Lymph %		62.1 ± 12.0		30.5 ± 8.0		13.0 ± 8.0	
	Mid %		6.8 ± 6.0		6.9 ± 6.0		5.8 ± 5.0	
	Gran %		31.1 ± 12.0		62.6 ± 8.0		81.2 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.4 ± 0.7		2.9 ± 1.8	
	Mid × 10 <sup>3</sup> /μL		0.1 ± 0.1		0.6 ± 0.6		1.3 ± 1.2	
	Gran × 10 <sup>3</sup> /μL		0.7 ± 0.3		5.0 ± 0.7		18.0 ± 2.0	
<b>BC-3600, BC-3300</b>	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.2 ± 1.0		22.0 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.29 ± 0.18		4.80 ± 0.24		5.91 ± 0.30	
	HGB g/dL		6.1 ± 0.4		13.9 ± 0.6		18.7 ± 0.8	
	HCT %		18.1 ± 1.5		41.2 ± 2.0		54.8 ± 2.4	
	MCV fL		79.2 ± 5.0		85.8 ± 5.0		92.7 ± 5.0	
	MCH pg		26.6 ± 2.5		29.0 ± 2.5		31.6 ± 2.5	
	MCHC g/dL		33.6 ± 3.0		33.8 ± 3.0		34.1 ± 3.0	
	RDW-CV		16.3 ± 3.0		14.5 ± 3.0		14.2 ± 3.0	
	RDW-SD		37.8 ± 8.0		39.0 ± 8.0		44.3 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		66 ± 20		252 ± 40		537 ± 60	
	MPV fL		9.0 ± 3.0		8.5 ± 3.0		8.8 ± 3.0	
	PCT % *		0.059 ± 0.050		0.214 ± 0.100		0.473 ± 0.200	
	PDW *		15.3 ± 3.0		15.7 ± 3.0		16.1 ± 3.0	
	P-LCC		20 ± 10		66 ± 22		148 ± 30	
	P-LCR		30.7 ± 9.0		26.0 ± 9.0		27.6 ± 9.0	
	Lymph %		58.2 ± 9.0		29.8 ± 8.0		13.3 ± 8.0	
	Mid %		10.3 ± 10.3		7.3 ± 7.3		4.1 ± 4.1	
	Gran %		31.5 ± 10.0		62.9 ± 8.0		82.6 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.2		2.4 ± 0.7		2.9 ± 1.8	
	Mid × 10 <sup>3</sup> /μL		0.2 ± 0.2		0.6 ± 0.6		0.9 ± 0.9	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		5.2 ± 0.7		18.2 ± 2.0	

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ASSAY VALUES AND EXPECTED RANGES

Instrument	Parameter	Low		Normal		High		++++
		LOT	B0825L	LOT	B0825N	LOT	B0825H	
<b>BC-10, BC-10e, BC-11</b>	WBC × 10 <sup>3</sup> /μL		1.9 ± 0.5		7.8 ± 1.0		21.2 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.15 ± 0.18		4.53 ± 0.24		5.58 ± 0.30	
<b>BC-20, BC-21</b>	HGB g/dL		6.1 ± 0.4		13.8 ± 0.6		18.3 ± 0.8	
	HCT %		17.4 ± 1.5		39.5 ± 2.0		51.7 ± 2.4	
	MCV fL		81.0 ± 5.0		87.3 ± 5.0		92.7 ± 5.0	
	MCH pg		28.4 ± 2.5		30.5 ± 2.5		32.8 ± 2.5	
	MCHC g/dL		35.0 ± 3.0		34.9 ± 3.0		35.4 ± 3.0	
	RDW-CV		16.5 ± 3.0		15.2 ± 3.0		15.0 ± 3.0	
	RDW-SD		45.1 ± 8.0		44.1 ± 8.0		46.5 ± 8.0	
	PLT × 10 <sup>3</sup> /μL		58 ± 20		239 ± 40		511 ± 60	
	MPV fL		9.3 ± 3.0		8.9 ± 3.0		9.0 ± 3.0	
	PCT % *		0.054 ± 0.050		0.213 ± 0.100		0.460 ± 0.200	
	PDW *		15.2 ± 3.0		15.7 ± 3.0		16.1 ± 3.0	
	P-LCR		24.0 ± 9.0		21.2 ± 9.0		23.2 ± 9.0	
	Lymph %		60.8 ± 12.0		31.1 ± 8.0		13.9 ± 8.0	
	Mid %		6.8 ± 6.0		6.6 ± 5.5		4.8 ± 4.0	
	Gran %		32.4 ± 10.0		62.3 ± 8.0		81.3 ± 9.0	
	Lymph × 10 <sup>3</sup> /μL		1.2 ± 0.3		2.4 ± 0.7		2.9 ± 1.7	
	Mid × 10 <sup>3</sup> /μL		0.1 ± 0.1		0.5 ± 0.5		1.0 ± 0.9	
	Gran × 10 <sup>3</sup> /μL		0.6 ± 0.2		4.9 ± 0.7		17.3 ± 2.0	
<b>BC-2800Vet, BC-2600Vet</b> (Software version 2.0 or higher)	WBC × 10 <sup>3</sup> /μL		2.0 ± 0.5		8.1 ± 1.0		22.1 ± 2.5	
	RBC × 10 <sup>6</sup> /μL		2.21 ± 0.18		4.65 ± 0.24		5.79 ± 0.30	
	HGB g/dL		6.1 ± 0.4		14.0 ± 0.6		18.9 ± 0.8	
	HCT %		17.3 ± 1.5		40.5 ± 2.0		54.8 ± 2.4	
	MCV fL		78.5 ± 5.0		87.2 ± 5.0		94.7 ± 5.0	
	MCH pg		27.6 ± 2.5		30.1 ± 2.5		32.6 ± 2.5	
	MCHC g/dL		35.2 ± 3.0		34.5 ± 3.0		34.5 ± 3.0	
	PLT × 10 <sup>3</sup> /μL		64 ± 20		243 ± 40		516 ± 60	

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**Mindray**

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China

Tel: +86 755 81888998

Fax: +86 755 26582680

**EC REP**

Shanghai International Holding Corp. GmbH (Europe)

Eiffestraße 80 20537 Hamburg, Germany

Tel: 0049-40-2513175

Fax: 0049-40-255726