

BC-5D

HEMATOLOGY CONTROLS

CONTROL

 **BC2205B**
**2022-07-10**

ASSAY VALUES AND EXPECTED RANGES

Instrument Parameter	Low BC2205BL		Normal BC2205BN		High BC2205BH	
	The U.S. Units	The International Units	The U.S. Units	The International Units	The U.S. Units	The International Units
BC-5390 WBC	$3.20 \pm 0.50 \times 10^3/\mu\text{L}$	$3.20 \pm 0.50 \times 10^9/\text{L}$	$7.90 \pm 1.00 \times 10^3/\mu\text{L}$	$7.90 \pm 1.00 \times 10^9/\text{L}$	$17.30 \pm 2.50 \times 10^3/\mu\text{L}$	$17.30 \pm 2.50 \times 10^9/\text{L}$
QC Mode Neu#	$1.66 \pm 0.29 \times 10^3/\mu\text{L}$	$1.66 \pm 0.29 \times 10^9/\text{L}$	$4.50 \pm 0.72 \times 10^3/\mu\text{L}$	$4.50 \pm 0.72 \times 10^9/\mu\text{L}$	$11.25 \pm 1.56 \times 10^3/\mu\text{L}$	$11.25 \pm 1.56 \times 10^9/\mu\text{L}$
Lym#	$1.12 \pm 0.29 \times 10^3/\mu\text{L}$	$1.12 \pm 0.29 \times 10^9/\text{L}$	$2.13 \pm 0.71 \times 10^3/\mu\text{L}$	$2.13 \pm 0.71 \times 10^9/\mu\text{L}$	$3.11 \pm 1.21 \times 10^3/\mu\text{L}$	$3.11 \pm 1.21 \times 10^9/\mu\text{L}$
Mon#	$0.24 \pm 0.20 \times 10^3/\mu\text{L}$	$0.24 \pm 0.20 \times 10^9/\text{L}$	$0.59 \pm 0.48 \times 10^3/\mu\text{L}$	$0.59 \pm 0.48 \times 10^9/\mu\text{L}$	$1.21 \pm 0.86 \times 10^3/\mu\text{L}$	$1.21 \pm 0.86 \times 10^9/\mu\text{L}$
Eos#	$0.18 \pm 0.15 \times 10^3/\mu\text{L}$	$0.18 \pm 0.15 \times 10^9/\text{L}$	$0.67 \pm 0.56 \times 10^3/\mu\text{L}$	$0.67 \pm 0.56 \times 10^9/\mu\text{L}$	$1.73 \pm 1.39 \times 10^3/\mu\text{L}$	$1.73 \pm 1.39 \times 10^9/\mu\text{L}$
Bas#	$0.83 \pm 0.32 \times 10^3/\mu\text{L}$	$0.83 \pm 0.32 \times 10^9/\text{L}$	$2.20 \pm 0.80 \times 10^3/\mu\text{L}$	$2.20 \pm 0.80 \times 10^9/\mu\text{L}$	$5.36 \pm 1.73 \times 10^3/\mu\text{L}$	$5.36 \pm 1.73 \times 10^9/\mu\text{L}$
Neu%	$52.0 \pm 9.0 \%$	$52.0 \pm 9.0 \%$	$57.0 \pm 9.0 \%$	$57.0 \pm 9.0 \%$	$65.0 \pm 9.0 \%$	$65.0 \pm 9.0 \%$
Lym%	$35.0 \pm 9.0 \%$	$35.0 \pm 9.0 \%$	$27.0 \pm 9.0 \%$	$27.0 \pm 9.0 \%$	$18.0 \pm 7.0 \%$	$18.0 \pm 7.0 \%$
Mon%	$7.5 \pm 6.0 \%$	$7.5 \pm 6.0 \%$	$7.5 \pm 6.0 \%$	$7.5 \pm 6.0 \%$	$7.0 \pm 5.0 \%$	$7.0 \pm 5.0 \%$
Eos%	$5.5 \pm 4.4 \%$	$5.5 \pm 4.4 \%$	$8.5 \pm 7.0 \%$	$8.5 \pm 7.0 \%$	$10.0 \pm 8.0 \%$	$10.0 \pm 8.0 \%$
Bas%	$26.0 \pm 10.0 \%$	$26.0 \pm 10.0 \%$	$27.8 \pm 10.0 \%$	$27.8 \pm 10.0 \%$	$31.0 \pm 10.0 \%$	$31.0 \pm 10.0 \%$
RBC	$1.94 \pm 0.18 \times 10^6/\mu\text{L}$	$1.94 \pm 0.18 \times 10^{12}/\text{L}$	$4.14 \pm 0.24 \times 10^6/\mu\text{L}$	$4.14 \pm 0.24 \times 10^{12}/\text{L}$	$4.94 \pm 0.30 \times 10^6/\mu\text{L}$	$4.94 \pm 0.30 \times 10^{12}/\text{L}$
HGB	$5.2 \pm 0.4 \text{ g/dL}$	$52 \pm 4 \text{ g/L}$	$12.3 \pm 0.6 \text{ g/dL}$	$123 \pm 6 \text{ g/L}$	$15.9 \pm 0.8 \text{ g/dL}$	$159 \pm 8 \text{ g/L}$
HCT	$16.6 \pm 1.5 \%$	$16.6 \pm 1.5 \%$	$38.9 \pm 2.0 \%$	$38.9 \pm 2.0 \%$	$50.9 \pm 2.4 \%$	$50.9 \pm 2.4 \%$
MCV	$85.5 \pm 5.0 \text{ fL}$	$85.5 \pm 5.0 \text{ fL}$	$94.0 \pm 5.0 \text{ fL}$	$94.0 \pm 5.0 \text{ fL}$	$103.0 \pm 5.0 \text{ fL}$	$103.0 \pm 5.0 \text{ fL}$
MCH	$26.8 \pm 2.5 \text{ pg}$	$26.8 \pm 2.5 \text{ pg}$	$29.7 \pm 2.5 \text{ pg}$	$29.7 \pm 2.5 \text{ pg}$	$32.2 \pm 2.5 \text{ pg}$	$32.2 \pm 2.5 \text{ pg}$
MCHC	$31.3 \pm 3.0 \text{ g/dL}$	$313 \pm 30 \text{ g/L}$	$31.6 \pm 3.0 \text{ g/dL}$	$316 \pm 30 \text{ g/L}$	$31.2 \pm 3.0 \text{ g/dL}$	$312 \pm 30 \text{ g/L}$
RDW-CV	$14.0 \pm 3.0 \%$	$14.0 \pm 3.0 \%$	$13.0 \pm 3.0 \%$	$13.0 \pm 3.0 \%$	$13.0 \pm 3.0 \%$	$13.0 \pm 3.0 \%$
RDW-SD	$46.5 \pm 8.0 \text{ fL}$	$46.5 \pm 8.0 \text{ fL}$	$48.0 \pm 8.0 \text{ fL}$	$48.0 \pm 8.0 \text{ fL}$	$50.0 \pm 8.0 \text{ fL}$	$50.0 \pm 8.0 \text{ fL}$
PLT	$48 \pm 20 \times 10^3/\mu\text{L}$	$48 \pm 20 \times 10^9/\text{L}$	$238 \pm 40 \times 10^3/\mu\text{L}$	$238 \pm 40 \times 10^9/\text{L}$	$481 \pm 60 \times 10^3/\mu\text{L}$	$481 \pm 60 \times 10^9/\text{L}$
MPV	$11.6 \pm 3.0 \text{ fL}$	$11.6 \pm 3.0 \text{ fL}$	$11.4 \pm 3.0 \text{ fL}$	$11.4 \pm 3.0 \text{ fL}$	$10.7 \pm 3.0 \text{ fL}$	$10.7 \pm 3.0 \text{ fL}$

Before using, refer to the instruction sheet for mixing directions.

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