

# CBC-X

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

**LOT** 25050801, 25050802, 25050803  
 2025-07-25

QCP DATA MONTHS: **MAY, JUNE, JULY**

		LOW		NORMAL		HIGH			
		<b>LOT</b> 25050801		<b>LOT</b> 25050802		<b>LOT</b> 25050803			
Parameters	Assay Mean	± Limit	Expected Range	Assay Mean	± Limit	Expected Range	Assay Mean	± Limit	Expected Range
	WBC (10 <sup>9</sup> /L)	<b>4.05</b>	± 1.20	2.85 - 5.25	<b>7.65</b>	± 1.80	5.85 - 9.45	<b>20.50</b>	± 3.00
WBC-D (10 <sup>9</sup> /L)	<b>3.85</b>	± 1.20	2.65 - 5.05	<b>7.20</b>	± 1.80	5.40 - 9.00	<b>20.15</b>	± 3.00	17.15 - 23.15
RBC (10 <sup>12</sup> /L)	<b>2.12</b>	± 0.15	1.97 - 2.27	<b>4.75</b>	± 0.24	4.51 - 4.99	<b>5.65</b>	± 0.30	5.35 - 5.95
HGB (g/dL)	<b>5.8</b>	± 0.4	5.4 - 6.2	<b>13.3</b>	± 0.6	12.7 - 13.9	<b>17.5</b>	± 0.7	16.8 - 18.2
HCT (%)	<b>17.6</b>	± 2.0	15.6 - 19.6	<b>40.4</b>	± 2.5	37.9 - 42.9	<b>52.5</b>	± 3.0	49.5 - 55.5
MCV (fL)	<b>83.0</b>	± 5.0	78.0 - 88.0	<b>85.0</b>	± 5.0	80.0 - 90.0	<b>93.0</b>	± 5.0	88.0 - 98.0
MCH (pg)	<b>27.4</b>	± 2.5	24.9 - 29.9	<b>28.0</b>	± 2.5	25.5 - 30.5	<b>31.0</b>	± 2.5	28.5 - 33.5
MCHC (g/dL)	<b>33.0</b>	± 3.0	30.0 - 36.0	<b>32.9</b>	± 3.0	29.9 - 35.9	<b>33.3</b>	± 3.0	30.3 - 36.3
RDW-SD (fL)	<b>48.5</b>	± 10.0	38.5 - 58.5	<b>47.0</b>	± 10.0	37.0 - 57.0	<b>47.0</b>	± 10.0	37.0 - 57.0
RDW-CV (%)	<b>17.5</b>	± 5.0	12.5 - 22.5	<b>16.0</b>	± 5.0	11.0 - 21.0	<b>15.0</b>	± 5.0	10.0 - 20.0
PLT (10 <sup>9</sup> /L)	<b>40</b>	± 20	20 - 60	<b>205</b>	± 40	165 - 245	<b>415</b>	± 65	350 - 480
MPV (fL)	<b>9.6</b>	± 3.0	6.6 - 12.6	<b>9.5</b>	± 3.0	6.5 - 12.5	<b>9.5</b>	± 3.0	6.5 - 12.5
NEUT # (10 <sup>9</sup> /L)	<b>2.51</b>	± 0.49	2.02 - 3.00	<b>4.05</b>	± 0.76	3.29 - 4.81	<b>11.89</b>	± 2.46	9.43 - 14.35
LYMPH # (10 <sup>9</sup> /L)	<b>0.59</b>	± 0.41	0.18 - 1.00	<b>1.95</b>	± 0.76	1.19 - 2.71	<b>3.90</b>	± 2.05	1.85 - 5.95
MONO # (10 <sup>9</sup> /L)	<b>0.10</b>	± 0.10	0.00 - 0.20	<b>0.19</b>	± 0.19	0.00 - 0.38	<b>0.62</b>	± 0.62	0.00 - 1.24
EO # (10 <sup>9</sup> /L)	<b>0.65</b>	± 0.28	0.37 - 0.93	<b>1.07</b>	± 0.54	0.53 - 1.61	<b>3.08</b>	± 1.44	1.64 - 4.52
BASO # (10 <sup>9</sup> /L)	<b>0.20</b>	± 0.20	0.00 - 0.40	<b>0.38</b>	± 0.38	0.00 - 0.76	<b>1.03</b>	± 1.03	0.00 - 2.06
NEUT%	<b>62.0</b>	± 12.0	50.0 - 74.0	<b>53.0</b>	± 10.0	43.0 - 63.0	<b>58.0</b>	± 12.0	46.0 - 70.0
LYMPH%	<b>14.5</b>	± 10.0	4.5 - 24.5	<b>25.5</b>	± 10.0	15.5 - 35.5	<b>19.0</b>	± 10.0	9.0 - 29.0
MONO%	<b>2.5</b>	± 2.5	0.0 - 5.0	<b>2.5</b>	± 2.5	0.0 - 5.0	<b>3.0</b>	± 3.0	0.0 - 6.0
EO%	<b>16.0</b>	± 7.0	9.0 - 23.0	<b>14.0</b>	± 7.0	7.0 - 21.0	<b>15.0</b>	± 7.0	8.0 - 22.0
BASO%	<b>5.0</b>	± 5.0	0.0 - 10.0	<b>5.0</b>	± 5.0	0.0 - 10.0	<b>5.0</b>	± 5.0	0.0 - 10.0
NRBC# (10 <sup>9</sup> /L)	<b>0.40</b>	± 19.60	0.00 - 20.00	<b>0.40</b>	± 19.60	0.00 - 20.00	<b>0.40</b>	± 19.60	0.00 - 20.00
NRBC% (/100 WBC)	<b>2.0</b>	± 98.0	0.0 - 100.0	<b>2.0</b>	± 98.0	0.0 - 100.0	<b>2.0</b>	± 98.0	0.0 - 100.0
The parameters with assay values listed below are provided to allow for quality control testing of your instrument only. These parameters are defined by the FDA as "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES".									
PLT-O (10 <sup>9</sup> /L)	<b>55</b>	± 38	17 - 93	<b>265</b>	± 65	200 - 330	<b>500</b>	± 85	415 - 585
PCT (%)	<b>0.04</b>	± 0.03	0.01 - 0.07	<b>0.20</b>	± 0.07	0.13 - 0.27	<b>0.39</b>	± 0.11	0.28 - 0.50
PDW (fL)	<b>10.0</b>	± 5.0	5.0 - 15.0	<b>10.5</b>	± 5.0	5.5 - 15.5	<b>11.0</b>	± 5.0	6.0 - 16.0
P-LCR (%)	<b>23.0</b>	± 20.0	3.0 - 43.0	<b>23.0</b>	± 20.0	3.0 - 43.0	<b>24.0</b>	± 20.0	4.0 - 44.0
IPF (%)	<b>20.0</b>	± 20.0	0.0 - 40.0	<b>20.0</b>	± 20.0	0.0 - 40.0	<b>20.0</b>	± 20.0	0.0 - 40.0
IG # (10 <sup>9</sup> /L)	<b>0.65</b>	± 0.30	0.35 - 0.95	<b>1.03</b>	± 0.40	0.63 - 1.43	<b>3.08</b>	± 1.60	1.48 - 4.68
IG%	<b>16.0</b>	± 5.0	11.0 - 21.0	<b>13.5</b>	± 5.0	8.5 - 18.5	<b>15.0</b>	± 5.0	10.0 - 20.0
RBC-O (10 <sup>12</sup> /L)	<b>2.08</b>	± 0.30	1.78 - 2.38	<b>4.65</b>	± 0.50	4.15 - 5.15	<b>5.60</b>	± 0.60	5.00 - 6.20

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 AS148-010 Rev. 02/24

# CBC-X

## HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

**LOT** 25050801, 25050802, 25050803



2025-07-25

QCP DATA MONTHS: **MAY, JUNE, JULY**

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	LOW		NORMAL		HIGH	
	<b>LOT</b> 25050801		<b>LOT</b> 25050802		<b>LOT</b> 25050803	
Parameters	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range
WBC-C (10 <sup>9</sup> /L)	<b>4.20</b> ± 1.20	3.00 - 5.40	<b>7.75</b> ± 2.00	5.75 - 9.75	<b>21.60</b> ± 3.20	18.40 - 24.80
WBC-D (10 <sup>9</sup> /L)	<b>3.90</b> ± 1.20	2.70 - 5.10	<b>7.35</b> ± 2.00	5.35 - 9.35	<b>20.90</b> ± 3.20	17.70 - 24.10
RBC (10 <sup>12</sup> /L)	<b>2.12</b> ± 0.15	1.97 - 2.27	<b>4.70</b> ± 0.24	4.46 - 4.94	<b>5.72</b> ± 0.30	5.42 - 6.02
HGB (g/dL)	<b>5.9</b> ± 0.4	5.5 - 6.3	<b>13.3</b> ± 0.6	12.7 - 13.9	<b>17.7</b> ± 0.7	17.0 - 18.4
HCT (%)	<b>18.0</b> ± 2.0	16.0 - 20.0	<b>40.7</b> ± 2.5	38.2 - 43.2	<b>53.8</b> ± 3.0	50.8 - 56.8
MCV (fL)	<b>85.0</b> ± 5.0	80.0 - 90.0	<b>86.5</b> ± 5.0	81.5 - 91.5	<b>94.0</b> ± 5.0	89.0 - 99.0
MCH (pg)	<b>27.8</b> ± 2.5	25.3 - 30.3	<b>28.3</b> ± 2.5	25.8 - 30.8	<b>30.9</b> ± 2.5	28.4 - 33.4
MCHC (g/dL)	<b>32.7</b> ± 3.0	29.7 - 35.7	<b>32.7</b> ± 3.0	29.7 - 35.7	<b>32.9</b> ± 3.0	29.9 - 35.9
RDW-SD (fL)	<b>51.0</b> ± 10.0	41.0 - 61.0	<b>48.5</b> ± 10.0	38.5 - 58.5	<b>49.0</b> ± 10.0	39.0 - 59.0
RDW-CV (%)	<b>17.0</b> ± 5.0	12.0 - 22.0	<b>16.5</b> ± 5.0	11.5 - 21.5	<b>14.5</b> ± 5.0	9.5 - 19.5
PLT (10 <sup>9</sup> /L)	<b>42</b> ± 20	22 - 62	<b>205</b> ± 40	165 - 245	<b>420</b> ± 65	355 - 485
MPV (fL)	<b>9.5</b> ± 3.0	6.5 - 12.5	<b>9.5</b> ± 3.0	6.5 - 12.5	<b>9.5</b> ± 3.0	6.5 - 12.5
NEUT # (10 <sup>9</sup> /L)	<b>2.26</b> ± 0.39	1.87 - 2.65	<b>3.64</b> ± 0.74	2.90 - 4.38	<b>11.29</b> ± 2.09	9.20 - 13.38
LYMPH # (10 <sup>9</sup> /L)	<b>0.60</b> ± 0.39	0.21 - 0.99	<b>1.98</b> ± 0.73	1.25 - 2.71	<b>4.28</b> ± 2.09	2.19 - 6.37
MONO # (10 <sup>9</sup> /L)	<b>0.10</b> ± 0.10	0.00 - 0.20	<b>0.18</b> ± 0.18	0.00 - 0.36	<b>0.52</b> ± 0.52	0.00 - 1.04
EO # (10 <sup>9</sup> /L)	<b>0.60</b> ± 0.35	0.25 - 0.95	<b>0.99</b> ± 0.66	0.33 - 1.65	<b>3.03</b> ± 1.88	1.15 - 4.91
BASO # (10 <sup>9</sup> /L)	<b>0.33</b> ± 0.33	0.00 - 0.66	<b>0.55</b> ± 0.55	0.00 - 1.10	<b>1.78</b> ± 1.78	0.00 - 3.56
NEUT%	<b>58.0</b> ± 10.0	48.0 - 68.0	<b>49.5</b> ± 10.0	39.5 - 59.5	<b>54.0</b> ± 10.0	44.0 - 64.0
LYMPH%	<b>15.5</b> ± 10.0	5.5 - 25.5	<b>27.0</b> ± 10.0	17.0 - 37.0	<b>20.5</b> ± 10.0	10.5 - 30.5
MONO%	<b>2.5</b> ± 2.5	0.0 - 5.0	<b>2.5</b> ± 2.5	0.0 - 5.0	<b>2.5</b> ± 2.5	0.0 - 5.0
EO%	<b>15.5</b> ± 9.0	6.5 - 24.5	<b>13.5</b> ± 9.0	4.5 - 22.5	<b>14.5</b> ± 9.0	5.5 - 23.5
BASO%	<b>8.5</b> ± 8.5	0.0 - 17.0	<b>7.5</b> ± 7.5	0.0 - 15.0	<b>8.5</b> ± 8.5	0.0 - 17.0
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PLT-O (10 <sup>9</sup> /L)	<b>55</b> ± 38	17 - 93	<b>265</b> ± 65	200 - 330	<b>480</b> ± 85	395 - 565
PCT (%)	<b>0.05</b> ± 0.03	0.02 - 0.08	<b>0.20</b> ± 0.07	0.13 - 0.27	<b>0.41</b> ± 0.11	0.30 - 0.52
PDW (fL)	<b>10.0</b> ± 5.0	5.0 - 15.0	<b>11.0</b> ± 5.0	6.0 - 16.0	<b>11.0</b> ± 5.0	6.0 - 16.0
P-LCR (%)	<b>23.0</b> ± 20.0	3.0 - 43.0	<b>22.0</b> ± 20.0	2.0 - 42.0	<b>22.0</b> ± 20.0	2.0 - 42.0
IG # (10 <sup>9</sup> /L)	<b>0.62</b> ± 0.30	0.32 - 0.92	<b>0.99</b> ± 0.40	0.59 - 1.39	<b>3.14</b> ± 1.60	1.54 - 4.74
IG%	<b>16.0</b> ± 5.0	11.0 - 21.0	<b>13.5</b> ± 5.0	8.5 - 18.5	<b>15.0</b> ± 5.0	10.0 - 20.0
RBC-O (10 <sup>12</sup> /L)	<b>2.08</b> ± 0.30	1.78 - 2.38	<b>4.53</b> ± 0.50	4.03 - 5.03	<b>5.48</b> ± 0.60	4.88 - 6.08

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**LOT** 25050801, 25050802, 25050803

2025-07-25

QCP DATA MONTHS: **MAY, JUNE, JULY**

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	Parameters	LOW		NORMAL		HIGH		
		<b>LOT</b> 25050801	Expected Range	<b>LOT</b> 25050802	Expected Range	<b>LOT</b> 25050803	Expected Range	
		Assay Mean ± Limit		Assay Mean ± Limit		Assay Mean ± Limit		
MINDRAY BC-6800, BC-6600 QC Mode	WBC (10 <sup>9</sup> /L)	<b>4.10</b> ± 0.70	3.40 - 4.80	<b>7.30</b> ± 1.00	6.30 - 8.30	<b>20.25</b> ± 2.50	17.75 - 22.75	
	Neu # (10 <sup>9</sup> /L)	<b>2.83</b> ± 0.41	2.42 - 3.24	<b>4.31</b> ± 0.58	3.73 - 4.89	<b>14.07</b> ± 1.82	12.25 - 15.89	
	Lym # (10 <sup>9</sup> /L)	<b>0.51</b> ± 0.33	0.18 - 0.84	<b>1.64</b> ± 0.51	1.13 - 2.15	<b>3.34</b> ± 1.42	1.92 - 4.76	
	Mon # (10 <sup>9</sup> /L)	<b>0.10</b> ± 0.10	0.00 - 0.20	<b>0.26</b> ± 0.26	0.00 - 0.52	<b>0.61</b> ± 0.61	0.00 - 1.22	
	Eos # (10 <sup>9</sup> /L)	<b>0.59</b> ± 0.41	0.18 - 1.00	<b>0.99</b> ± 0.77	0.22 - 1.76	<b>1.92</b> ± 1.62	0.30 - 3.54	
	Bas # (10 <sup>9</sup> /L)	<b>0.06</b> ± 0.20	-0.14 - 0.26	<b>0.11</b> ± 0.37	-0.26 - 0.48	<b>0.30</b> ± 1.00	-0.70 - 1.30	
	Neu %	<b>69.0</b> ± 10.0	59.0 - 79.0	<b>59.0</b> ± 8.0	51.0 - 67.0	<b>69.5</b> ± 9.0	60.5 - 78.5	
	Lym %	<b>12.5</b> ± 8.0	4.5 - 20.5	<b>22.5</b> ± 7.0	15.5 - 29.5	<b>16.5</b> ± 7.0	9.5 - 23.5	
	Mon %	<b>2.5</b> ± 2.5	0.0 - 5.0	<b>3.5</b> ± 3.5	0.0 - 7.0	<b>3.0</b> ± 3.0	0.0 - 6.0	
	Eos %	<b>14.5</b> ± 10.0	4.5 - 24.5	<b>13.5</b> ± 10.5	3.0 - 24.0	<b>9.5</b> ± 8.0	1.5 - 17.5	
	Bas %	<b>1.5</b> ± 5.0	-3.5 - 6.5	<b>1.5</b> ± 5.0	-3.5 - 6.5	<b>1.5</b> ± 5.0	-3.5 - 6.5	
	RBC (10 <sup>12</sup> /L)	<b>2.20</b> ± 0.18	2.02 - 2.38	<b>4.75</b> ± 0.24	4.51 - 4.99	<b>5.65</b> ± 0.30	5.35 - 5.95	
	HGB (g/dL)	<b>5.9</b> ± 0.4	5.5 - 6.3	<b>13.4</b> ± 0.6	12.8 - 14.0	<b>17.5</b> ± 0.8	16.7 - 18.3	
	HCT (%)	<b>19.4</b> ± 2.0	17.4 - 21.4	<b>42.5</b> ± 2.5	40.0 - 45.0	<b>55.7</b> ± 3.0	52.7 - 58.7	
	MCV (fL)	<b>88.0</b> ± 5.0	83.0 - 93.0	<b>89.5</b> ± 5.0	84.5 - 94.5	<b>98.5</b> ± 5.0	93.5 - 103.5	
	MCH (pg)	<b>26.8</b> ± 2.5	24.3 - 29.3	<b>28.2</b> ± 2.5	25.7 - 30.7	<b>31.0</b> ± 2.5	28.5 - 33.5	
	MCHC (g/dL)	<b>30.5</b> ± 3.0	27.5 - 33.5	<b>31.5</b> ± 3.0	28.5 - 34.5	<b>31.4</b> ± 3.0	28.4 - 34.4	
	RDW-CV (%)	<b>17.0</b> ± 3.0	14.0 - 20.0	<b>16.5</b> ± 3.0	13.5 - 19.5	<b>15.0</b> ± 3.0	12.0 - 18.0	
	RDW-SD (fL)	<b>51.0</b> ± 6.0	45.0 - 57.0	<b>50.0</b> ± 6.0	44.0 - 56.0	<b>50.0</b> ± 8.0	42.0 - 58.0	
	PLT (10 <sup>9</sup> /L)	<b>45</b> ± 20	25 - 65	<b>225</b> ± 40	185 - 265	<b>445</b> ± 60	385 - 505	
	MPV (fL)	<b>9.0</b> ± 3.0	6.0 - 12.0	<b>9.5</b> ± 3.0	6.5 - 12.5	<b>10.0</b> ± 3.0	7.0 - 13.0	
	PDW	<b>15.5</b> ± 3.0	12.5 - 18.5	<b>16.5</b> ± 3.0	13.5 - 19.5	<b>16.5</b> ± 3.0	13.5 - 19.5	
	PCT (%)	<b>0.040</b> ± 0.040	0.000 - 0.080	<b>0.210</b> ± 0.100	0.110 - 0.310	<b>0.450</b> ± 0.200	0.250 - 0.650	
	P-LCR (%)	<b>22.0</b> ± 10.0	12.0 - 32.0	<b>24.0</b> ± 10.0	14.0 - 34.0	<b>27.0</b> ± 10.0	17.0 - 37.0	
	P-LCC (10 <sup>9</sup> /L)	<b>10</b> ± 8	2 - 18	<b>55</b> ± 24	31 - 79	<b>120</b> ± 50	70 - 170	
	IMG # (10 <sup>9</sup> /L)	<b>0.21</b> ± 0.21	0.00 - 0.42	<b>0.37</b> ± 0.37	0.00 - 0.74	<b>1.01</b> ± 1.01	0.00 - 2.02	
	IMG%	<b>5.0</b> ± 5.0	0.0 - 10.0	<b>5.0</b> ± 5.0	0.0 - 10.0	<b>5.0</b> ± 5.0	0.0 - 10.0	
	IPF (%)	<b>6.0</b> ± 6.0	0.0 - 12.0	<b>5.0</b> ± 5.0	0.0 - 10.0	<b>6.0</b> ± 6.0	0.0 - 12.0	
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		PLT-O (10 <sup>9</sup> /L)	<b>45</b> ± 20	25 - 65	<b>215</b> ± 40	175 - 255	<b>405</b> ± 60	345 - 465

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