

CBC-X

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT 26050801, 26050802, 26050803
 2026-07-25

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

	LOW			NORMAL			HIGH			
	LOT 26050801	Assay Mean ± Limit	Expected Range	LOT 26050802	Assay Mean ± Limit	Expected Range	LOT 26050803	Assay Mean ± Limit	Expected Range	
Sysmex XN Series	Parameters									
	WBC (10 ⁹ /L)	3.95 ± 1.20	2.75 - 5.15	8.05 ± 1.80	6.25 - 9.85	21.00 ± 3.00	18.00 - 24.00			
	WBC-D (10 ⁹ /L)	3.60 ± 1.20	2.40 - 4.80	7.25 ± 1.80	5.45 - 9.05	20.70 ± 3.00	17.70 - 23.70			
	RBC (10 ¹² /L)	2.27 ± 0.15	2.12 - 2.42	4.63 ± 0.24	4.39 - 4.87	5.74 ± 0.30	5.44 - 6.04			
	HGB (g/dL)	5.9 ± 0.4	5.5 - 6.3	13.4 ± 0.6	12.8 - 14.0	18.0 ± 0.7	17.3 - 18.7			
	HCT (%)	17.7 ± 2.0	15.7 - 19.7	39.8 ± 2.5	37.3 - 42.3	53.4 ± 3.0	50.4 - 56.4			
	MCV (fL)	78.0 ± 5.0	73.0 - 83.0	86.0 ± 5.0	81.0 - 91.0	93.0 ± 5.0	88.0 - 98.0			
	MCH (pg)	26.0 ± 2.5	23.5 - 28.5	28.9 ± 2.5	26.4 - 31.4	31.4 ± 2.5	28.9 - 33.9			
	MCHC (g/dL)	33.3 ± 3.0	30.3 - 36.3	33.7 ± 3.0	30.7 - 36.7	33.7 ± 3.0	30.7 - 36.7			
	RDW-SD (fL)	47.0 ± 10.0	37.0 - 57.0	46.5 ± 10.0	36.5 - 56.5	47.5 ± 10.0	37.5 - 57.5			
	RDW-CV (%)	17.5 ± 5.0	12.5 - 22.5	15.5 ± 5.0	10.5 - 20.5	14.5 ± 5.0	9.5 - 19.5			
	PLT (10 ⁹ /L)	41 ± 20	21 - 61	210 ± 40	170 - 250	390 ± 65	325 - 455			
	MPV (fL)	9.1 ± 3.0	6.1 - 12.1	9.3 ± 3.0	6.3 - 12.3	9.6 ± 3.0	6.6 - 12.6			
	NEUT # (10 ⁹ /L)	2.47 ± 0.47	2.00 - 2.94	4.03 ± 0.81	3.22 - 4.84	12.08 ± 2.31	9.77 - 14.39			
	LYMPH # (10 ⁹ /L)	0.47 ± 0.39	0.08 - 0.86	2.29 ± 0.80	1.49 - 3.09	4.31 ± 2.10	2.21 - 6.41			
	MONO # (10 ⁹ /L)	0.16 ± 0.16	0.00 - 0.32	0.28 ± 0.28	0.00 - 0.56	0.63 ± 0.63	0.00 - 1.26			
	EO # (10 ⁹ /L)	0.65 ± 0.28	0.37 - 0.93	1.05 ± 0.57	0.48 - 1.62	2.94 ± 1.47	1.47 - 4.41			
	BASO # (10 ⁹ /L)	0.20 ± 0.20	0.00 - 0.40	0.40 ± 0.40	0.00 - 0.80	1.05 ± 1.05	0.00 - 2.10			
	NEUT%	62.5 ± 12.0	50.5 - 74.5	50.0 ± 10.0	40.0 - 60.0	57.5 ± 11.0	46.5 - 68.5			
	LYMPH%	12.0 ± 10.0	2.0 - 22.0	28.5 ± 10.0	18.5 - 38.5	20.5 ± 10.0	10.5 - 30.5			
	MONO%	4.0 ± 4.0	0.0 - 8.0	3.5 ± 3.5	0.0 - 7.0	3.0 ± 3.0	0.0 - 6.0			
	EO%	16.5 ± 7.0	9.5 - 23.5	13.0 ± 7.0	6.0 - 20.0	14.0 ± 7.0	7.0 - 21.0			
	BASO%	5.0 ± 5.0	0.0 - 10.0	5.0 ± 5.0	0.0 - 10.0	5.0 ± 5.0	0.0 - 10.0			
	NRBC# (10 ⁹ /L)	0.40 ± 19.60	0.00 - 20.00	0.40 ± 19.60	0.00 - 20.00	0.40 ± 19.60	0.00 - 20.00			
	NRBC% (/100 WBC)	2.0 ± 98.0	0.0 - 100.0	2.0 ± 98.0	0.0 - 100.0	2.0 ± 98.0	0.0 - 100.0			
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	PLT-O (10 ⁹ /L)	55 ± 38	17 - 93	255 ± 65	190 - 320	450 ± 85	365 - 535			
	PCT (%)	0.04 ± 0.03	0.01 - 0.07	0.20 ± 0.07	0.13 - 0.27	0.37 ± 0.11	0.26 - 0.48			
	PDW (fL)	8.0 ± 5.0	3.0 - 13.0	10.0 ± 5.0	5.0 - 15.0	10.5 ± 5.0	5.5 - 15.5			
	P-LCR (%)	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0	21.0 ± 20.0	1.0 - 41.0			
	IPF (%)	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0			
	IG # (10 ⁹ /L)	0.59 ± 0.30	0.29 - 0.89	1.01 ± 0.40	0.61 - 1.41	2.94 ± 1.60	1.34 - 4.54			
	IG%	15.0 ± 5.0	10.0 - 20.0	12.5 ± 5.0	7.5 - 17.5	14.0 ± 5.0	9.0 - 19.0			
	RBC-O (10 ¹² /L)	2.25 ± 0.30	1.95 - 2.55	4.47 ± 0.50	3.97 - 4.97	5.68 ± 0.60	5.08 - 6.28			

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R&D Systems, Inc.
 614 McKinley Place NE
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 AS148-010 Rev. 02/24

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ASSAY VALUES AND EXPECTED RANGES

LOT 26050801, 26050802, 26050803

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

2026-07-25

		LOW		NORMAL		HIGH		++		
		LOT	26050801	LOT	26050802	LOT	26050803			
Sysmex XN-L Series	Parameters	Assay Mean	± Limit	Expected Range	Assay Mean	± Limit	Expected Range	Assay Mean	± Limit	Expected Range
		WBC-C (10 ⁹ /L)	3.90	± 1.20	2.70 - 5.10	8.05	± 2.00	6.05 - 10.05	21.50	± 3.20
	WBC-D (10 ⁹ /L)	3.50	± 1.20	2.30 - 4.70	7.10	± 2.00	5.10 - 9.10	20.75	± 3.20	17.55 - 23.95
	RBC (10 ¹² /L)	2.27	± 0.15	2.12 - 2.42	4.65	± 0.24	4.41 - 4.89	5.85	± 0.30	5.55 - 6.15
	HGB (g/dL)	5.8	± 0.4	5.4 - 6.2	13.4	± 0.6	12.8 - 14.0	17.9	± 0.7	17.2 - 18.6
	HCT (%)	17.9	± 2.0	15.9 - 19.9	40.0	± 2.5	37.5 - 42.5	54.7	± 3.0	51.7 - 57.7
	MCV (fL)	79.0	± 5.0	74.0 - 84.0	86.0	± 5.0	81.0 - 91.0	93.5	± 5.0	88.5 - 98.5
	MCH (pg)	25.6	± 2.5	23.1 - 28.1	28.8	± 2.5	26.3 - 31.3	30.6	± 2.5	28.1 - 33.1
	MCHC (g/dL)	32.3	± 3.0	29.3 - 35.3	33.5	± 3.0	30.5 - 36.5	32.7	± 3.0	29.7 - 35.7
	RDW-SD (fL)	49.0	± 10.0	39.0 - 59.0	49.0	± 10.0	39.0 - 59.0	50.5	± 10.0	40.5 - 60.5
	RDW-CV (%)	18.0	± 5.0	13.0 - 23.0	15.5	± 5.0	10.5 - 20.5	14.5	± 5.0	9.5 - 19.5
	PLT (10 ⁹ /L)	42	± 20	22 - 62	208	± 40	168 - 248	390	± 65	325 - 455
	MPV (fL)	8.9	± 3.0	5.9 - 11.9	9.2	± 3.0	6.2 - 12.2	9.6	± 3.0	6.6 - 12.6
	NEUT # (10 ⁹ /L)	2.00	± 0.35	1.65 - 2.35	3.34	± 0.71	2.63 - 4.05	11.10	± 2.07	9.03 - 13.17
	LYMPH # (10 ⁹ /L)	0.49	± 0.35	0.14 - 0.84	2.17	± 0.71	1.46 - 2.88	4.57	± 2.08	2.49 - 6.65
	MONO # (10 ⁹ /L)	0.14	± 0.14	0.00 - 0.28	0.18	± 0.18	0.00 - 0.36	0.52	± 0.52	0.00 - 1.04
	EO # (10 ⁹ /L)	0.58	± 0.32	0.26 - 0.90	0.89	± 0.64	0.25 - 1.53	2.91	± 1.87	1.04 - 4.78
	BASO # (10 ⁹ /L)	0.30	± 0.30	0.00 - 0.60	0.53	± 0.53	0.00 - 1.06	1.66	± 1.66	0.00 - 3.32
	NEUT%	57.0	± 10.0	47.0 - 67.0	47.0	± 10.0	37.0 - 57.0	53.5	± 10.0	43.5 - 63.5
	LYMPH%	14.0	± 10.0	4.0 - 24.0	30.5	± 10.0	20.5 - 40.5	22.0	± 10.0	12.0 - 32.0
	MONO%	4.0	± 4.0	0.0 - 8.0	2.5	± 2.5	0.0 - 5.0	2.5	± 2.5	0.0 - 5.0
	EO%	16.5	± 9.0	7.5 - 25.5	12.5	± 9.0	3.5 - 21.5	14.0	± 9.0	5.0 - 23.0
	BASO%	8.5	± 8.5	0.0 - 17.0	7.5	± 7.5	0.0 - 15.0	8.0	± 8.0	0.0 - 16.0
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	PLT-O (10 ⁹ /L)	57	± 38	19 - 95	255	± 65	190 - 320	445	± 85	360 - 530
	PCT (%)	0.04	± 0.03	0.01 - 0.07	0.19	± 0.07	0.12 - 0.26	0.37	± 0.11	0.26 - 0.48
	PDW (fL)	8.5	± 5.0	3.5 - 13.5	10.0	± 5.0	5.0 - 15.0	11.0	± 5.0	6.0 - 16.0
	P-LCR (%)	20.0	± 20.0	0.0 - 40.0	20.0	± 20.0	0.0 - 40.0	22.5	± 20.0	2.5 - 42.5
	IG # (10 ⁹ /L)	0.53	± 0.30	0.23 - 0.83	0.89	± 0.40	0.49 - 1.29	2.91	± 1.60	1.31 - 4.51
	IG%	15.0	± 5.0	10.0 - 20.0	12.5	± 5.0	7.5 - 17.5	14.0	± 5.0	9.0 - 19.0
	RBC-O (10 ¹² /L)	2.20	± 0.30	1.90 - 2.50	4.45	± 0.50	3.95 - 4.95	5.60	± 0.60	5.00 - 6.20

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LOT 26050801, 26050802, 26050803

2026-07-25

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

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MINDRAY BC-6800, BC-6600 QC Mode	Parameters	LOW		NORMAL		HIGH	
		LOT 26050801		LOT 26050802		LOT 26050803	
		Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range
	WBC (10 ⁹ /L)	3.80 ± 0.70	3.10 - 4.50	7.70 ± 1.00	6.70 - 8.70	20.25 ± 2.50	17.75 - 22.75
	Neu # (10 ⁹ /L)	2.41 ± 0.38	2.03 - 2.79	4.12 ± 0.62	3.50 - 4.74	13.87 ± 1.82	12.05 - 15.69
	Lym # (10 ⁹ /L)	0.38 ± 0.30	0.08 - 0.68	1.89 ± 0.54	1.35 - 2.43	3.85 ± 1.42	2.43 - 5.27
	Mon # (10 ⁹ /L)	0.10 ± 0.10	0.00 - 0.20	0.27 ± 0.27	0.00 - 0.54	0.61 ± 0.61	0.00 - 1.22
	Eos # (10 ⁹ /L)	0.87 ± 0.38	0.49 - 1.25	1.35 ± 0.77	0.58 - 2.12	1.72 ± 1.72	0.00 - 3.44
	Bas # (10 ⁹ /L)	0.04 ± 0.20	-0.16 - 0.24	0.08 ± 0.40	-0.32 - 0.48	0.20 ± 1.00	-0.80 - 1.20
	Neu %	63.5 ± 10.0	53.5 - 73.5	53.5 ± 8.0	45.5 - 61.5	68.5 ± 9.0	59.5 - 77.5
	Lym %	10.0 ± 8.0	2.0 - 18.0	24.5 ± 7.0	17.5 - 31.5	19.0 ± 7.0	12.0 - 26.0
	Mon %	2.5 ± 2.5	0.0 - 5.0	3.5 ± 3.5	0.0 - 7.0	3.0 ± 3.0	0.0 - 6.0
	Eos %	23.0 ± 10.0	13.0 - 33.0	17.5 ± 10.0	7.5 - 27.5	8.5 ± 8.5	0.0 - 17.0
	Bas %	1.0 ± 5.0	-4.0 - 6.0	1.0 ± 5.0	-4.0 - 6.0	1.0 ± 5.0	-4.0 - 6.0
	RBC (10 ¹² /L)	2.31 ± 0.18	2.13 - 2.49	4.62 ± 0.24	4.38 - 4.86	5.73 ± 0.30	5.43 - 6.03
	HGB (g/dL)	6.0 ± 0.4	5.6 - 6.4	13.4 ± 0.6	12.8 - 14.0	17.8 ± 0.8	17.0 - 18.6
	HCT (%)	19.1 ± 2.0	17.1 - 21.1	42.3 ± 2.5	39.8 - 44.8	56.2 ± 3.0	53.2 - 59.2
	MCV (fL)	82.5 ± 5.0	77.5 - 87.5	91.5 ± 5.0	86.5 - 96.5	98.0 ± 5.0	93.0 - 103.0
	MCH (pg)	26.0 ± 2.5	23.5 - 28.5	29.0 ± 2.5	26.5 - 31.5	31.1 ± 2.5	28.6 - 33.6
	MCHC (g/dL)	31.5 ± 3.0	28.5 - 34.5	31.7 ± 3.0	28.7 - 34.7	31.7 ± 3.0	28.7 - 34.7
	RDW-CV (%)	17.0 ± 3.0	14.0 - 20.0	15.5 ± 3.0	12.5 - 18.5	14.5 ± 3.0	11.5 - 17.5
	RDW-SD (fL)	50.0 ± 6.0	44.0 - 56.0	51.0 ± 6.0	45.0 - 57.0	52.0 ± 8.0	44.0 - 60.0
	PLT (10 ⁹ /L)	46 ± 20	26 - 66	225 ± 40	185 - 265	410 ± 60	350 - 470
	MPV (fL)	7.8 ± 3.0	4.8 - 10.8	9.0 ± 3.0	6.0 - 12.0	10.0 ± 3.0	7.0 - 13.0
	PDW	15.5 ± 3.0	12.5 - 18.5	16.5 ± 3.0	13.5 - 19.5	16.5 ± 3.0	13.5 - 19.5
	PCT (%)	0.050 ± 0.050	0.000 - 0.100	0.200 ± 0.100	0.100 - 0.300	0.400 ± 0.200	0.200 - 0.600
	P-LCR (%)	14.0 ± 10.0	4.0 - 24.0	21.5 ± 10.0	11.5 - 31.5	27.5 ± 10.0	17.5 - 37.5
	P-LCC (10 ⁹ /L)	8 ± 8	0 - 16	50 ± 24	26 - 74	110 ± 50	60 - 160
	IMG # (10 ⁹ /L)	0.19 ± 0.19	0.00 - 0.38	0.39 ± 0.39	0.00 - 0.78	1.01 ± 1.01	0.00 - 2.02
	IMG%	5.0 ± 5.0	0.0 - 10.0	5.0 ± 5.0	0.0 - 10.0	5.0 ± 5.0	0.0 - 10.0
	IPF (%)	6.5 ± 6.5	0.0 - 13.0	6.0 ± 6.0	0.0 - 12.0	6.0 ± 6.0	0.0 - 12.0
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	PLT-O (10 ⁹ /L)	53 ± 20	33 - 73	215 ± 40	175 - 255	375 ± 60	315 - 435

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