

HC5D-B

(Cat No.1518)

HEMATOLOGY CONTROLS

CONTROL

LOT E5214-01

EXP. 2025-06-16

		LOW		NORMAL		HIGH	
Sysmex XN Series	Parameters	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range
	WBC (10 ⁹ /L)	3.85 ± 1.20	2.65 - 5.05	7.55 ± 1.80	5.75 - 9.35	20.40 ± 3.00	17.40 - 23.40
	WBC-D (10 ⁹ /L)	3.65 ± 1.20	2.45 - 4.85	7.45 ± 1.80	5.65 - 9.25	20.60 ± 3.00	17.60 - 23.60
	RBC (10 ¹² /L)	2.21 ± 0.15	2.06 - 2.36	4.71 ± 0.24	4.47 - 4.95	5.95 ± 0.30	5.65 - 6.25
	HGB (g/dL)	6.0 ± 0.4	5.6 - 6.4	13.4 ± 0.6	12.8 - 14.0	18.2 ± 0.7	17.5 - 18.9
	HCT (%)	18.3 ± 2.0	16.3 - 20.3	41.0 ± 2.5	38.5 - 43.5	54.4 ± 3.0	51.4 - 57.4
	MCV (fL)	83.0 ± 5.0	78.0 - 88.0	87.0 ± 5.0	82.0 - 92.0	91.5 ± 5.0	86.5 - 96.5
	MCH (pg)	27.1 ± 2.5	24.6 - 29.6	28.5 ± 2.5	26.0 - 31.0	30.6 ± 2.5	28.1 - 33.1
	MCHC (g/dL)	32.7 ± 3.0	29.7 - 35.7	32.7 ± 3.0	29.7 - 35.7	33.4 ± 3.0	30.4 - 36.4
	RDW-SD (fL)	48.0 ± 10.0	38.0 - 58.0	47.5 ± 10.0	37.5 - 57.5	45.5 ± 10.0	35.5 - 55.5
	RDW-CV (%)	16.5 ± 5.0	11.5 - 21.5	15.5 ± 5.0	10.5 - 20.5	14.0 ± 5.0	9.0 - 19.0
	PLT (10 ⁹ /L)	44 ± 20	24 - 64	200 ± 40	160 - 240	400 ± 65	335 - 465
	MPV (fL)	9.6 ± 3.0	6.6 - 12.6	9.7 ± 3.0	6.7 - 12.7	9.8 ± 3.0	6.8 - 12.8
	NEUT # (10 ⁹ /L)	2.44 ± 0.46	1.98 - 2.90	3.93 ± 0.91	3.02 - 4.84	12.04 ± 2.45	9.59 - 14.49
	LYMPH # (10 ⁹ /L)	0.50 ± 0.35	0.15 - 0.85	1.96 ± 0.53	1.43 - 2.49	3.77 ± 1.63	2.14 - 5.40
	MONO # (10 ⁹ /L)	0.10 ± 0.10	0.00 - 0.20	0.26 ± 0.26	0.00 - 0.52	0.51 ± 0.51	0.00 - 1.02
	EO # (10 ⁹ /L)	0.62 ± 0.35	0.27 - 0.97	1.02 ± 0.53	0.49 - 1.55	3.06 ± 1.43	1.63 - 4.49
	BASO # (10 ⁹ /L)	0.19 ± 0.19	0.00 - 0.38	0.38 ± 0.38	0.00 - 0.76	1.02 ± 1.02	0.00 - 2.04
	NEUT%	63.5 ± 12.0	51.5 - 75.5	52.0 ± 12.0	40.0 - 64.0	59.0 ± 12.0	47.0 - 71.0
	LYMPH%	13.0 ± 9.0	4.0 - 22.0	26.0 ± 7.0	19.0 - 33.0	18.5 ± 8.0	10.5 - 26.5
	MONO%	2.5 ± 2.5	0.0 - 5.0	3.5 ± 3.5	0.0 - 7.0	2.5 ± 2.5	0.0 - 5.0
	EO%	16.0 ± 9.0	7.0 - 25.0	13.5 ± 7.0	6.5 - 20.5	15.0 ± 7.0	8.0 - 22.0
	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
	RET%	7.50 ± 5.00	2.50 - 12.50	3.80 ± 2.00	1.80 - 5.80	1.00 ± 1.00	0.00 - 2.00
	RET# (10 ¹² /L)	0.1658 ± 0.1105	0.0553 - 0.2763	0.1790 ± 0.0942	0.0848 - 0.2732	0.0595 ± 0.0595	0.0000 - 0.1190
	IRF (%)	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0
	RET-HE (pg)	16.0 ± 10.0	6.0 - 26.0	16.5 ± 10.0	6.5 - 26.5	29.0 ± 10.0	19.0 - 39.0
PLT-O (10 ⁹ /L)	65 ± 38	27 - 103	260 ± 65	195 - 325	480 ± 85	395 - 565	
PCT (%)	0.04 ± 0.03	0.01 - 0.07	0.20 ± 0.07	0.13 - 0.27	0.38 ± 0.11	0.27 - 0.49	
PDW (fL)	10.0 ± 5.0	5.0 - 15.0	11.0 ± 5.0	6.0 - 16.0	11.0 ± 5.0	6.0 - 16.0	
P-LCR (%)	22.5 ± 20.0	2.5 - 42.5	24.0 ± 20.0	4.0 - 44.0	24.0 ± 20.0	4.0 - 44.0	
IPF (%)	19.0 ± 15.0	4.0 - 34.0	19.0 ± 15.0	4.0 - 34.0	19.0 ± 15.0	4.0 - 34.0	
IG # (10 ⁹ /L)	0.60 ± 0.19	0.41 - 0.79	1.02 ± 0.38	0.64 - 1.40	2.96 ± 1.02	1.94 - 3.98	
IG%	15.5 ± 5.0	10.5 - 20.5	13.5 ± 5.0	8.5 - 18.5	14.5 ± 5.0	9.5 - 19.5	
RBC-O (10 ¹² /L)	2.22 ± 0.30	1.92 - 2.52	4.55 ± 0.50	4.05 - 5.05	5.90 ± 0.60	5.30 - 6.50	
LFR (%)	80.0 ± 20.0	60.0 - 100.0	80.0 ± 20.0	60.0 - 100.0	80.0 ± 20.0	60.0 - 100.0	
MFR(%)	14.0 ± 14.0	0.0 - 28.0	14.0 ± 14.0	0.0 - 28.0	14.0 ± 14.0	0.0 - 28.0	
HFR (%)	6.0 ± 6.0	0.0 - 12.0	6.0 ± 6.0	0.0 - 12.0	6.0 ± 6.0	0.0 - 12.0	

HC5D-B

(Cat No.1518)

HEMATOLOGY CONTROLS

CONTROL

LOT E5214-01

EXP. 2025-06-16

		LOW		NORMAL		HIGH	
Sysmex XN-L Series	Parameters	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range
	WBC-D (10 ⁹ /L)	3.75 ± 1.20	2.55 - 4.95	7.80 ± 2.00	5.80 - 9.80	21.40 ± 3.20	18.20 - 24.60
	RBC (10 ¹² /L)	2.19 ± 0.15	2.04 - 2.34	4.69 ± 0.24	4.45 - 4.93	6.02 ± 0.30	5.72 - 6.32
	HGB (g/dL)	6.0 ± 0.4	5.6 - 6.4	13.3 ± 0.6	12.7 - 13.9	18.3 ± 0.7	17.6 - 19.0
	HCT (%)	18.4 ± 2.0	16.4 - 20.4	41.5 ± 2.5	39.0 - 44.0	55.7 ± 3.0	52.7 - 58.7
	MCV (fL)	84.0 ± 5.0	79.0 - 89.0	88.5 ± 5.0	83.5 - 93.5	92.5 ± 5.0	87.5 - 97.5
	MCH (pg)	27.4 ± 2.5	24.9 - 29.9	28.4 ± 2.5	25.9 - 30.9	30.4 ± 2.5	27.9 - 32.9
	MCHC (g/dL)	32.6 ± 3.0	29.6 - 35.6	32.0 ± 3.0	29.0 - 35.0	32.9 ± 3.0	29.9 - 35.9
	RDW-SD (fL)	49.5 ± 10.0	39.5 - 59.5	49.0 ± 10.0	39.0 - 59.0	47.0 ± 10.0	37.0 - 57.0
	RDW-CV (%)	16.5 ± 5.0	11.5 - 21.5	15.5 ± 5.0	10.5 - 20.5	14.5 ± 5.0	9.5 - 19.5
	PLT (10 ⁹ /L)	45 ± 20	25 - 65	200 ± 40	160 - 240	402 ± 65	337 - 467
	MPV (fL)	9.8 ± 3.0	6.8 - 12.8	9.6 ± 3.0	6.6 - 12.6	9.7 ± 3.0	6.7 - 12.7
	NEUT # (10 ⁹ /L)	2.21 ± 0.45	1.76 - 2.66	3.74 ± 0.78	2.96 - 4.52	11.66 ± 2.14	9.52 - 13.80
	LYMPH # (10 ⁹ /L)	0.49 ± 0.34	0.15 - 0.83	2.26 ± 0.70	1.56 - 2.96	4.28 ± 1.93	2.35 - 6.21
	MONO # (10 ⁹ /L)	0.09 ± 0.09	0.00 - 0.18	0.20 ± 0.20	0.00 - 0.40	0.54 ± 0.54	0.00 - 1.08
	EO # (10 ⁹ /L)	0.60 ± 0.34	0.26 - 0.94	1.01 ± 0.54	0.47 - 1.55	3.10 ± 1.50	1.60 - 4.60
	BASO # (10 ⁹ /L)	0.36 ± 0.36	0.00 - 0.72	0.59 ± 0.59	0.00 - 1.18	1.82 ± 1.82	0.00 - 3.64
	NEUT%	59.0 ± 12.0	47.0 - 71.0	48.0 ± 10.0	38.0 - 58.0	54.5 ± 10.0	44.5 - 64.5
	LYMPH%	13.0 ± 9.0	4.0 - 22.0	29.0 ± 9.0	20.0 - 38.0	20.0 ± 9.0	11.0 - 29.0
	MONO%	2.5 ± 2.5	0.0 - 5.0	2.5 ± 2.5	0.0 - 5.0	2.5 ± 2.5	0.0 - 5.0
	EO%	16.0 ± 9.0	7.0 - 25.0	13.0 ± 7.0	6.0 - 20.0	14.5 ± 7.0	7.5 - 21.5
	BASO%	9.5 ± 9.5	0.0 - 19.0	7.5 ± 7.5	0.0 - 15.0	8.5 ± 8.5	0.0 - 17.0
	RET%	7.90 ± 4.00	3.90 - 11.90	4.10 ± 2.00	2.10 - 6.10	1.00 ± 1.00	0.00 - 2.00
	RET# (10 ¹² /L)	0.1730 ± 0.0876	0.0854 - 0.2606	0.1923 ± 0.0938	0.0985 - 0.2861	0.0602 ± 0.0602	0.0000 - 0.1204
	IRF (%)	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0	20.0 ± 20.0	0.0 - 40.0
	RET-HE (pg)	14.0 ± 10.0	4.0 - 24.0	14.5 ± 10.0	4.5 - 24.5	26.0 ± 10.0	16.0 - 36.0
	PLT-O (10 ⁹ /L)	65 ± 38	27 - 103	255 ± 65	190 - 320	445 ± 85	360 - 530
	PCT (%)	0.04 ± 0.03	0.01 - 0.07	0.20 ± 0.07	0.13 - 0.27	0.38 ± 0.11	0.27 - 0.49
	PDW (fL)	10.5 ± 5.0	5.5 - 15.5	11.0 ± 5.0	6.0 - 16.0	11.5 ± 5.0	6.5 - 16.5
	P-LCR (%)	24.0 ± 20.0	4.0 - 44.0	22.5 ± 20.0	2.5 - 42.5	23.0 ± 20.0	3.0 - 43.0
	IG # (10 ⁹ /L)	0.62 ± 0.19	0.43 - 0.81	1.01 ± 0.39	0.62 - 1.40	3.21 ± 1.07	2.14 - 4.28
	IG%	16.5 ± 5.0	11.5 - 21.5	13.0 ± 5.0	8.0 - 18.0	15.0 ± 5.0	10.0 - 20.0
	RBC-O (10 ¹² /L)	2.13 ± 0.30	1.83 - 2.43	4.45 ± 0.50	3.95 - 4.95	5.75 ± 0.60	5.15 - 6.35
	LFR (%)	80.0 ± 20.0	60.0 - 100.0	80.0 ± 20.0	60.0 - 100.0	80.0 ± 20.0	60.0 - 100.0
	MFR(%)	14.0 ± 14.0	0.0 - 28.0	14.0 ± 14.0	0.0 - 28.0	14.0 ± 14.0	0.0 - 28.0
	HFR (%)	6.0 ± 6.0	0.0 - 12.0	6.0 ± 6.0	0.0 - 12.0	6.0 ± 6.0	0.0 - 12.0

HC5D-B

(Cat No.1518)

HEMATOLOGY CONTROLS

CONTROL

LOT E5214-01

EXP. 2025-06-16

		LOW		NORMAL		HIGH	
MINDRAY BC-6800, BC-6600 QC Mode	Parameters	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range	Assay Mean ± Limit	Expected Range
	WBC (10 ⁹ /L)	3.85 ± 0.50	3.35 - 4.35	7.30 ± 1.00	6.30 - 8.30	19.40 ± 2.50	16.90 - 21.90
	Neu # (10 ⁹ /L)	2.81 ± 0.38	2.43 - 3.19	4.45 ± 0.58	3.87 - 5.03	13.39 ± 1.55	11.84 - 14.94
	Lym # (10 ⁹ /L)	0.46 ± 0.31	0.15 - 0.77	1.75 ± 0.51	1.24 - 2.26	3.20 ± 1.36	1.84 - 4.56
	Mon # (10 ⁹ /L)	0.10 ± 0.10	0.00 - 0.20	0.33 ± 0.33	0.00 - 0.66	0.58 ± 0.58	0.00 - 1.16
	Eos # (10 ⁹ /L)	0.44 ± 0.31	0.13 - 0.75	0.66 ± 0.59	0.07 - 1.25	1.94 ± 1.36	0.58 - 3.30
	Bas # (10 ⁹ /L)	0.04 ± 0.20	-0.16 - 0.24	0.11 ± 0.37	-0.26 - 0.48	0.29 ± 0.97	-0.68 - 1.26
	Neu %	73.0 ± 10.0	63.0 - 83.0	61.0 ± 8.0	53.0 - 69.0	69.0 ± 8.0	61.0 - 77.0
	Lym %	12.0 ± 8.0	4.0 - 20.0	24.0 ± 7.0	17.0 - 31.0	16.5 ± 7.0	9.5 - 23.5
	Mon %	2.5 ± 2.5	0.0 - 5.0	4.5 ± 4.5	0.0 - 9.0	3.0 ± 3.0	0.0 - 6.0
	Eos %	11.5 ± 8.0	3.5 - 19.5	9.0 ± 8.0	1.0 - 17.0	10.0 ± 7.0	3.0 - 17.0
	Bas %	1.0 ± 5.0	-4.0 - 6.0	1.5 ± 5.0	-3.5 - 6.5	1.5 ± 5.0	-3.5 - 6.5
	RBC (10 ¹² /L)	2.25 ± 0.18	2.07 - 2.43	4.72 ± 0.24	4.48 - 4.96	5.95 ± 0.30	5.65 - 6.25
	HGB (g/dL)	6.1 ± 0.4	5.7 - 6.5	13.3 ± 0.6	12.7 - 13.9	18.1 ± 0.8	17.3 - 18.9
	HCT (%)	19.9 ± 2.0	17.9 - 21.9	43.9 ± 2.5	41.4 - 46.4	58.3 ± 3.0	55.3 - 61.3
	MCV (fL)	88.5 ± 5.0	83.5 - 93.5	93.0 ± 5.0	88.0 - 98.0	98.0 ± 5.0	93.0 - 103.0
	MCH (pg)	27.1 ± 2.5	24.6 - 29.6	28.2 ± 2.5	25.7 - 30.7	30.4 ± 2.5	27.9 - 32.9
	MCHC (g/dL)	30.6 ± 3.0	27.6 - 33.6	30.3 ± 3.0	27.3 - 33.3	31.0 ± 3.0	28.0 - 34.0
	RDW-CV (%)	16.0 ± 3.0	13.0 - 19.0	15.0 ± 3.0	12.0 - 18.0	14.5 ± 3.0	11.5 - 17.5
	RDW-SD (fL)	49.0 ± 6.0	43.0 - 55.0	50.0 ± 6.0	44.0 - 56.0	48.5 ± 8.0	40.5 - 56.5
	PLT (10 ⁹ /L)	50 ± 20	30 - 70	220 ± 40	180 - 260	440 ± 60	380 - 500
	MPV (fL)	9.1 ± 3.0	6.1 - 12.1	9.8 ± 3.0	6.8 - 12.8	10.3 ± 3.0	7.3 - 13.3
	PDW	16.0 ± 3.0	13.0 - 19.0	16.5 ± 3.0	13.5 - 19.5	17.0 ± 3.0	14.0 - 20.0
	PCT (%)	0.050 ± 0.050	0.000 - 0.100	0.215 ± 0.100	0.115 - 0.315	0.455 ± 0.200	0.255 - 0.655
	P-LCR (%)	22.5 ± 10.0	12.5 - 32.5	26.5 ± 10.0	16.5 - 36.5	30.0 ± 10.0	20.0 - 40.0
	P-LCC (10 ⁹ /L)	11 ± 8	3 - 19	60 ± 24	36 - 84	130 ± 50	80 - 180
	IMG # (10 ⁹ /L)	0.19 ± 0.19	0.00 - 0.38	0.37 ± 0.37	0.00 - 0.74	0.97 ± 0.97	0.00 - 1.94
	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 (%)	5.0 ± 5.0	0.0 - 10.0	5.0 ± 5.0	0.0 - 10.0	5.0 ± 5.0	0.0 - 10.0
	PLT-O (10 ⁹ /L)	50 ± 20	30 - 70	190 ± 40	150 - 230	365 ± 60	305 - 425