

# HC5D-B

(Cat No.1510)

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT E5213-02

EXP. 2025-05-16

Instrument	Parameter	Unit	Low		Normal		High	
Hemax530AL & Hemax530 QC  技术文件版本810及 之前版本	WBC	×10 <sup>9</sup> /L	3.28	±0.50	7.30	±1.00	15.19	±2.50
	Neu%	%	50.0	±18.0	56.2	±16.0	64.2	±15.0
	Lym%	%	35.0	±15.0	27.3	±14.0	18.3	±12.0
	Mon%	%	6.4	±6.3	7.0	± 6.9	5.6	±5.5
	Eos%	%	8.1	±8.0	9.0	±8.9	11.4	±11.3
	Bas%	%	0.5	±0.5	0.5	± 0.5	0.5	±0.5
	Neu#	×10 <sup>9</sup> /L	1.64	±0.59	4.10	±1.17	9.75	±2.28
	Lym#	×10 <sup>9</sup> /L	1.15	±0.49	1.99	±1.02	2.78	±1.82
	Mon#	×10 <sup>9</sup> /L	0.21	±0.20	0.51	±0.50	0.85	±0.84
	Eos#	×10 <sup>9</sup> /L	0.26	±0.25	0.66	±0.65	1.73	±1.72
	Bas#	×10 <sup>9</sup> /L	0.02	±0.02	0.04	± 0.04	0.08	±0.08
	RBC	×10 <sup>12</sup> /L	2.26	±0.18	4.49	±0.24	5.13	±0.50
	HGB	g/L	59	±4	132	±6	166	±8
	HCT	%	17.3	±2.0	39.2	±3.0	48.6	±4.0
	MCV	fL	76.7	±5.0	87.4	±5.0	94.8	±6.0
	MCH	pg	26.1	±2.5	29.4	±2.5	32.4	±2.5
	MCHC	g/L	341	±30	337	±30	342	±30
	RDW-CV	%	17.1	±6.0	15.7	±6.0	15.4	±6.0
	RDW-SD	fL	45.8	±24.0	52.5	±24.0	55.5	±24.0
	PLT	×10 <sup>9</sup> /L	70	±20	258	±40	500	±60
	MPV	fL	9.2	±3.0	9.4	±3.0	9.1	±3.0
	PDW	/	9.6	±6.0	11.5	±6.0	11.2	±6.0

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Hemax530AL  QC  技术文件版本812及813版本	WBC	×10 <sup>9</sup> /L	3.28	±0.50	7.30	±1.00	15.19	±2.50
	Neu%	%	50.0	±18.0	56.2	±16.0	64.2	±15.0
	Lym%	%	35.0	±15.0	27.3	±14.0	18.3	±12.0
	Mon%	%	6.4	±6.3	7.0	± 6.9	5.6	±5.5
	Eos%	%	8.1	±8.0	9.0	±8.9	11.4	±11.3
	Bas%	%	0.5	±0.5	0.5	± 0.5	0.5	±0.5
	Neu#	×10 <sup>9</sup> /L	1.64	±0.59	4.10	±1.17	9.75	±2.28
	Lym#	×10 <sup>9</sup> /L	1.15	±0.49	1.99	±1.02	2.78	±1.82
	Mon#	×10 <sup>9</sup> /L	0.21	±0.20	0.51	±0.50	0.85	±0.84
	Eos#	×10 <sup>9</sup> /L	0.26	±0.25	0.66	±0.65	1.73	±1.72
	Bas#	×10 <sup>9</sup> /L	0.02	±0.02	0.04	± 0.04	0.08	±0.08
	RBC	×10 <sup>12</sup> /L	2.26	±0.18	4.49	±0.24	5.13	±0.50
	HGB	g/L	61	±4	134	±6	168	±8
	HCT	%	17.3	±2.0	39.2	±3.0	48.6	±4.0
	MCV	fL	76.7	±5.0	87.4	±5.0	94.8	±6.0
	MCH	pg	27.0	±2.5	29.8	±2.5	32.7	±2.5
	MCHC	g/L	353	±30	342	±30	346	±30
	RDW-CV	%	17.1	±6.0	15.7	±6.0	15.4	±6.0
	RDW-SD	fL	45.8	±24.0	52.5	±24.0	55.5	±24.0
	PLT	×10 <sup>9</sup> /L	58	±20	248	±40	488	±60
	MPV	fL	9.2	±3.0	9.4	±3.0	9.1	±3.0
	PDW	/	9.6	±6.0	11.5	±6.0	11.2	±6.0

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Instrument	Parameter	Unit	Low		Normal		High	
Hemax530AL  QC  技术文件版本814版本	WBC	×10 <sup>9</sup> /L	2.90	±0.50	6.20	±1.00	13.50	±2.50
	Neu%	%	51.0	±18.0	54.7	±16.0	64.0	±15.0
	Lym%	%	36.0	±15.0	27.7	±14.0	17.4	±12.0
	Mon%	%	6.6	±6.5	7.7	± 7.6	6.2	±6.1
	Eos%	%	6.1	±6.0	9.4	±9.3	12.0	±11.9
	Bas%	%	0.3	±0.3	0.5	±0.5	0.4	±0.4
	Neu#	×10 <sup>9</sup> /L	1.48	±0.52	3.39	±0.99	8.64	±2.03
	Lym#	×10 <sup>9</sup> /L	1.04	±0.44	1.72	±0.87	2.35	±1.62
	Mon#	×10 <sup>9</sup> /L	0.19	±0.18	0.48	±0.47	0.84	±0.83
	Eos#	×10 <sup>9</sup> /L	0.18	±0.17	0.58	±0.57	1.62	±1.61
	Bas#	×10 <sup>9</sup> /L	0.01	±0.01	0.03	± 0.03	0.05	±0.05
	RBC	×10 <sup>12</sup> /L	2.25	±0.18	4.53	±0.24	5.15	±0.50
	HGB	g/L	61	±4	136	±6	169	±8
	HCT	%	17.8	±2.0	40.1	±3.0	49.0	±4.0
	MCV	fL	79.1	±5.0	88.5	±5.0	95.1	±6.0
	MCH	pg	27.1	±2.5	30.0	±2.5	32.8	±2.5
	MCHC	g/L	342	±30	339	±30	344	±30
	RDW-CV	%	14.9	±6.0	12.9	±6.0	11.9	±6.0
	RDW-SD	fL	42.8	±24.0	44.9	±24.0	48.0	±24.0
	PLT	×10 <sup>9</sup> /L	35	±20	248	±40	500	±60
	MPV	fL	9.7	±3.0	9.8	±3.0	9.3	±3.0
	PDW	/	8.7	±6.0	12.0	±6.0	11.2	±6.0

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Instrument	Parameter	Unit	Low		Normal		High	
Hemax530AL  QC  技术文件版本815版本	WBC	×10 <sup>9</sup> /L	2.90	±0.50	6.20	±1.00	13.50	±2.50
	Neu%	%	51.0	±18.0	54.7	±16.0	64.0	±15.0
	Lym%	%	36.0	±15.0	27.7	±14.0	17.4	±12.0
	Mon%	%	6.6	±6.5	7.7	± 7.6	6.2	±6.1
	Eos%	%	6.1	±6.0	9.4	±9.3	12.0	±11.9
	Bas%	%	0.3	±0.3	0.5	±0.5	0.4	±0.4
	Neu#	×10 <sup>9</sup> /L	1.48	±0.52	3.39	±0.99	8.64	±2.03
	Lym#	×10 <sup>9</sup> /L	1.04	±0.44	1.72	±0.87	2.35	±1.62
	Mon#	×10 <sup>9</sup> /L	0.19	±0.18	0.48	±0.47	0.84	±0.83
	Eos#	×10 <sup>9</sup> /L	0.18	±0.17	0.58	±0.57	1.62	±1.61
	Bas#	×10 <sup>9</sup> /L	0.01	±0.01	0.03	± 0.03	0.05	±0.05
	RBC	×10 <sup>12</sup> /L	2.25	±0.18	4.53	±0.24	5.15	±0.50
	HGB	g/L	59	±4	134	±6	167	±8
	HCT	%	17.8	±2.0	40.1	±3.0	49.0	±4.0
	MCV	fL	79.1	±5.0	88.5	±5.0	95.1	±6.0
	MCH	pg	26.2	±2.5	29.6	±2.5	32.4	±2.5
	MCHC	g/L	331	±30	335	±30	341	±30
	RDW-CV	%	14.9	±6.0	12.9	±6.0	11.9	±6.0
	RDW-SD	fL	42.8	±24.0	44.9	±24.0	48.0	±24.0
	PLT	×10 <sup>9</sup> /L	53	±20	248	±40	487	±60
	MPV	fL	9.7	±3.0	9.8	±3.0	9.3	±3.0
	PDW	/	8.7	±6.0	12.0	±6.0	11.2	±6.0

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Instrument	Parameter	Unit	Low	Normal	High
Hemax 530AL  QC  技术文件版本 A 3 及以上	WBC	$\times 10^9/L$	$3.58 \pm 0.50$	$8.24 \pm 1.00$	$18.59 \pm 2.50$
	Neu%	%	$53.0 \pm 18.0$	$57.8 \pm 16.0$	$65.9 \pm 15.0$
	Lym%	%	$36.0 \pm 15.0$	$29.4 \pm 14.0$	$19.8 \pm 12.0$
	Mon%	%	$6.1 \pm 6.0$	$7.7 \pm 7.0$	$7.6 \pm 7.0$
	Eos%	%	$4.9 \pm 4.0$	$5.1 \pm 5.0$	$6.7 \pm 6.0$
	Bas%	%	$62.5 \pm 12.0$	$69.2 \pm 12.0$	$79.9 \pm 15.0$
	Neu#	$\times 10^9/L$	$1.90 \pm 0.62$	$4.76 \pm 1.28$	$12.25 \pm 2.76$
	Lym#	$\times 10^9/L$	$1.29 \pm 0.51$	$2.42 \pm 1.12$	$3.68 \pm 2.21$
	Mon#	$\times 10^9/L$	$0.22 \pm 0.20$	$0.63 \pm 0.55$	$1.41 \pm 1.29$
	Eos#	$\times 10^9/L$	$0.18 \pm 0.17$	$0.42 \pm 0.39$	$1.25 \pm 1.11$
	Bas#	$\times 10^9/L$	$2.24 \pm 0.41$	$5.70 \pm 0.96$	$14.85 \pm 2.76$
	RBC	$\times 10^{12}/L$	$2.26 \pm 0.18$	$4.60 \pm 0.24$	$5.32 \pm 0.50$
	HGB	g/L	$58 \pm 4$	$136 \pm 6$	$172 \pm 8$
	HCT	%	$18.8 \pm 2.0$	$43.5 \pm 3.0$	$54.3 \pm 4.0$
	MCV	fL	$83.0 \pm 5.0$	$94.5 \pm 5.0$	$102.0 \pm 6.0$
	MCH	pg	$25.6 \pm 2.5$	$29.6 \pm 2.5$	$32.2 \pm 2.5$
	MCHC	g/L	$309 \pm 30$	$313 \pm 30$	$317 \pm 30$
	RDW-CV	%	$18.1 \pm 3.0$	$16.1 \pm 3.0$	$15.3 \pm 3.0$
	RDW-SD	fL	$52.9 \pm 10$	$52.8 \pm 10.0$	$54.1 \pm 12.0$
	PLT	$\times 10^9/L$	$55.0 \pm 20$	$268.0 \pm 40$	$537.0 \pm 60$
	MPV	fL	$9.1 \pm 3.0$	$8.7 \pm 3.0$	$8.1 \pm 3.0$
	PDW	fL	$9.0 \pm 3.0$	$9.3 \pm 3.0$	$9.9 \pm 3.0$

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Instrument	Parameter	Unit	Low	Normal	High
Hemax 530  QC  技术文件版本 A 6 及以上	WBC	$\times 10^9/L$	$3.56 \pm 0.50$	$8.23 \pm 1.00$	$18.60 \pm 2.50$
	Neu%	%	$52.5 \pm 18.0$	$58.1 \pm 16.0$	$66.5 \pm 15.0$
	Lym%	%	$36.0 \pm 15.0$	$28.4 \pm 14.0$	$19.4 \pm 13.0$
	Mon%	%	$7.5 \pm 7.0$	$7.8 \pm 7.2$	$7.7 \pm 7.0$
	Eos%	%	$4.0 \pm 4.0$	$5.7 \pm 5.0$	$6.4 \pm 6.0$
	Bas%	%	$62.6 \pm 12.0$	$71.9 \pm 13.0$	$80.8 \pm 12.0$
	Neu#	$\times 10^9/L$	$1.87 \pm 0.62$	$4.78 \pm 1.28$	$12.37 \pm 2.75$
	Lym#	$\times 10^9/L$	$1.28 \pm 0.52$	$2.34 \pm 1.12$	$3.61 \pm 2.38$
	Mon#	$\times 10^9/L$	$0.27 \pm 0.24$	$0.64 \pm 0.57$	$1.43 \pm 1.28$
	Eos#	$\times 10^9/L$	$0.14 \pm 0.14$	$0.47 \pm 0.40$	$1.19 \pm 1.09$
	Bas#	$\times 10^9/L$	$2.23 \pm 0.41$	$5.92 \pm 1.04$	$15.03 \pm 2.19$
	RBC	$\times 10^{12}/L$	$2.23 \pm 0.18$	$4.53 \pm 0.24$	$5.28 \pm 0.50$
	HGB	g/L	$58 \pm 4$	$137 \pm 6$	$171 \pm 8$
	HCT	%	$18.4 \pm 2.0$	$42.7 \pm 3.0$	$53.7 \pm 4.0$
	MCV	fL	$82.6 \pm 5.0$	$94.3 \pm 5.0$	$101.7 \pm 6.0$
	MCH	pg	$25.8 \pm 2.5$	$30.2 \pm 2.5$	$32.3 \pm 2.5$
	MCHC	g/L	$315 \pm 30$	$321 \pm 30$	$318 \pm 30$
	RDW-CV	%	$17.9 \pm 3.0$	$15.7 \pm 3.0$	$15.1 \pm 3.0$
	RDW-SD	fL	$53.0 \pm 10$	$52.5 \pm 10.0$	$53.9 \pm 12.0$
	PLT	$\times 10^9/L$	$53.0 \pm 20$	$261.0 \pm 40$	$546.0 \pm 60$
	MPV	fL	$9.5 \pm 3.0$	$8.7 \pm 3.0$	$8.3 \pm 3.0$
	PDW	fL	$8.8 \pm 4.0$	$9.3 \pm 4.0$	$9.9 \pm 4.0$

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Instrument	Parameter	Unit	Low	Normal	High
Hemax 53  QC	WBC	$\times 10^9/L$	$3.59 \pm 0.50$	$8.09 \pm 1.00$	$19.07 \pm 2.50$
	Neu%	%	$49.7 \pm 15.0$	$57.3 \pm 13.0$	$65.5 \pm 14.0$
	Lym%	%	$39.4 \pm 15.0$	$31.0 \pm 13.0$	$20.5 \pm 14.0$
	Mon%	%	$7.0 \pm 7.0$	$7.5 \pm 7.0$	$9.5 \pm 7.0$
	Eos%	%	$3.0 \pm 3.0$	$3.5 \pm 3.5$	$4.0 \pm 4.0$
	Bas%	%	$0.9 \pm 0.5$	$0.7 \pm 0.5$	$0.5 \pm 0.5$
	Neu#	$\times 10^9/L$	$1.78 \pm 0.53$	$4.64 \pm 1.08$	$12.49 \pm 2.59$
	Lym#	$\times 10^9/L$	$1.41 \pm 0.53$	$2.51 \pm 1.08$	$3.91 \pm 2.59$
	Mon#	$\times 10^9/L$	$0.25 \pm 0.21$	$0.61 \pm 0.58$	$1.81 \pm 1.30$
	Eos#	$\times 10^9/L$	$0.11 \pm 0.11$	$0.28 \pm 0.18$	$0.76 \pm 0.76$
	Bas#	$\times 10^9/L$	$0.03 \pm 0.03$	$0.06 \pm 0.06$	$0.10 \pm 0.10$
	RBC	$\times 10^{12}/L$	$2.32 \pm 0.18$	$4.63 \pm 0.24$	$5.27 \pm 0.50$
	HGB	g/L	$59 \pm 4$	$132 \pm 6$	$167 \pm 8$
	HCT	%	$18.4 \pm 2.0$	$41.3 \pm 3.0$	$50.5 \pm 4.0$
	MCV	fL	$79.5 \pm 5.0$	$89.3 \pm 5.0$	$96.0 \pm 6.0$
	MCH	pg	$25.4 \pm 2.5$	$28.6 \pm 2.5$	$31.7 \pm 2.5$
	MCHC	g/L	$321 \pm 30$	$320 \pm 30$	$331 \pm 30$
	RDW-CV	%	$19.8 \pm 3.0$	$17.8 \pm 3.0$	$17.1 \pm 3.0$
	RDW-SD	fL	$57.1 \pm 10$	$58.7 \pm 10.0$	$59.1 \pm 12.0$
	PLT	$\times 10^9/L$	$65.0 \pm 20$	$260.0 \pm 40$	$526.0 \pm 60$
	MPV	fL	$7.8 \pm 3.0$	$8.4 \pm 3.0$	$7.9 \pm 3.0$
	PDW	fL	$13.7 \pm 3.0$	$12.9 \pm 3.0$	$12.7 \pm 3.0$