

Vetscan® HM5 Reference Intervals (Common Species)¹

Parameter	Units	Species					
		DOG	CAT ²	HORSE	CATTLE	SHEEP [†]	GOAT [†]
WBC	10 ⁹ cells/l	6.00 - 17.00	3.50 - 20.70	5.40 - 14.30	4.00 - 12.00	4.00 - 12.00	4.00 - 13.00
LYM	10 ⁹ cells/l	1.00 - 4.80	0.83 - 9.10	1.50 - 7.70	2.50 - 7.50	2.00 - 9.00	2.00 - 9.00
MON	10 ⁹ cells/l	0.20 - 1.50	0.09 - 1.21	0 - 1.50	0 - 0.84	0 - 0.75	0 - 0.50
NEU (GRA)	10 ⁹ cells/l	3.00 - 12.00	1.63 - 13.37	2.30 - 9.50	0.60 - 6.70	(0.70 - 7.30)	(1.20 - 8.00)
EOS	10 ⁹ cells/l	0 - 0.80	0.02 - 0.49	0 - 1.00	0.10 - 1.00	---	---
RBC	10 ¹² cells/l	5.50 - 8.50	7.70 - 12.80	6.80 - 12.90	5.00 - 10.00	9.00 - 15.80	8.00 - 18.00
HCT	%	37.0 - 55.0	33.7 - 55.4	32.0 - 53.0	24.0 - 46.0	27.0 - 45.0	25.0 - 38.0
HGB	g/dl	12.0 - 18.0	10.0 - 17.0	11.0 - 19.0	8.0 - 15.0	9.0 - 15.0	8.0 - 12.0
MCV	fl	60 - 77	35 - 52	37 - 59	40 - 60	28 - 40	16 - 30
MCH	pg	19.5 - 24.5	10.0 - 16.9	12.3 - 19.7	11.0 - 17.0	8.0 - 12.0	5.2 - 8.0
MCHC	g/dl	31.0 - 39.0	27.0 - 35.0	31.0 - 39.0	30.0 - 36.0	31.0 - 34.0	30.0 - 36.0
RDWc	%	14.0 - 20.0	18.3 - 24.1	N/A	N/A	N/A	N/A
PLT	10 ⁹ cells/l	165 - 500	125 - 618	100 - 400	100 - 800	100 - 800	N/A
MPV	fl	3.9 - 11.1	8.6 - 14.9	N/A	N/A	N/A	N/A

Blood Cell Parameters

WBC: White Blood Cells
LYM: Lymphocytes
MON: Monocytes
NEU: Neutrophils
GRA: Granulocytes
EOS: Eosinophils
RBC: Red Blood Cells
HCT: Hematocrit
HGB: Hemoglobin
MCV: Mean Cell Volume
MCH: Mean Corpuscular Hemoglobin
MCHC: Mean Corpuscular Hemoglobin Concentration
RDWc: Red Blood Cell Distribution Width (coefficient of variation)
PLT: Platelets
MPV: Mean Platelet Volume

[†] 3-part differential with GRA

--- EOS not included in 3-part differential.

N/A Reference interval data not available for these parameters.

Need help? Get in touch with Zoetis
Diagnostic Technical Support 24/7:

 1-888-963-8471, option 5

 dxsupport@zoetis.com

References:

1. Vetscan® HM5 Operator Manual, LBL-03063, Zoetis, Inc.

2. Data on file, Study Report No. DH86R-US-20-058. Zoetis, Inc.



Vetscan® HM5 Reference Intervals (Additional Species)¹



Parameter	Units	Species							
		RABBIT [†]	FERRET [†]	GUINEA PIG [†]	RAT [†]	MOUSE ^{†*}	PIG	ALPACA	LLAMA
WBC	10 ⁹ cells/l	3.00 - 11.50	2.00 - 10.00	5.00 - 17.00	2.10 - 19.50	6.00 - 15.00	11.00 - 22.00	6.00 - 30.00	8.00 - 23.00
LYM	10 ⁹ cells/l	2.00 - 9.10	0.40 - 6.50	2.00 - 15.00	2.00 - 14.10	3.40 - 7.44	5.50 - 11.10	1.00 - 20.00	1.00 - 6.00
MON	10 ⁹ cells/l	0 - 0.50	0.10 - 0.70	N/A	0 - 0.98	0 - 0.60	0.66 - 1.32	N/A	N/A
NEU (GRA)	10 ⁹ cells/l	(0 - 2.80)	(0.80 - 4.50)	(1.00 - 11.00)	(0.10 - 5.40)	(0.50 - 3.80)	(5.00 - 10.00)	3.00 - 20.00	5.00 - 24.00
EOS	10 ⁹ cells/l	---	---	---	---	---	---	N/A	N/A
RBC	10 ¹² cells/l	5.00 - 9.00	7.80 - 13.00	3.50 - 7.00	5.30 - 10.00	7.00 - 12.00	5.00 - 8.00	8.00 - 20.00	10.00 - 17.00
HCT	%	36.0 - 50.0	36.0 - 56.0	35.0 - 55.0	35.0 - 52.0	35.0 - 45.0	32.0 - 50.0	25.0 - 45.0	25.0 - 50.0
HGB	g/dl	12.7 - 16.3	12.4 - 18.7	11.0 - 18.0	14.0 - 18.0	12.2 - 16.2	10.0 - 16.0	9.0 - 21.0	11.0 - 18.0
MCV	fl	57 - 70	40 - 48	70 - 95	50 - 62	45 - 55	50 - 68	15 - 35	20 - 35
MCH	pg	17.5 - 23.5	13.5 - 16.5	23.0 - 27.0	16.0 - 23.0	11.1 - 12.7	17.0 - 21.0	7.5 - 13.5	10.0 - 14.0
MCHC	g/dl	30.0 - 38.0	32.1 - 35.5	28.0 - 38.0	31.0 - 40.0	22.3 - 32.0	30.0 - 34.0	30.0 - 45.0	30.0 - 45.0
RDWc	%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PLT	10 ⁹ cells/l	218 - 641	96 - 776	250 - 850	500 - 1000	200 - 450	325 - 715	N/A	N/A
MPV	fl	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Blood Cell Parameters

- WBC:** White Blood Cells
- LYM:** Lymphocytes
- MON:** Monocytes
- NEU:** Neutrophils
- GRA:** Granulocytes
- EOS:** Eosinophils
- RBC:** Red Blood Cells
- HCT:** Hematocrit
- HGB:** Hemoglobin
- MCV:** Mean Cell Volume
- MCH:** Mean Corpuscular Hemoglobin
- MCHC:** Mean Corpuscular Hemoglobin Concentration
- RDWc:** Red Blood Cell Distribution Width (coefficient of variation)
- PLT:** Platelets
- MPV:** Mean Platelet Volume

[†] 3-part differential with GRA
^{*} Different mouse models may have varied intervals and these reference intervals should only be used as a guideline.
 --- EOS not included in 3-part differential.
 N/A Reference interval data not available for these parameters.

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References:

1. Vetscan® HM5 Operator Manual, LBL-03063, Zoetis, Inc.
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