

Hematology Values in Healthy Young Beagle Dogs

VALUE	4 WEEKS	6 WEEKS	8 WEEKS
RBC (M/uL)	3.6-4.9	4.3-5.1	4.5-5.9
Hemoglobin (g/dL)	8.5-10.3	8.5-11.3	10.3-12.5
PCV (%)	27-33.5	26.5-35.5	31.0-39.0
MCV (fL) ¹	73.0	69.0	72.0
MCH (pg) ¹	23.0	22.0	22.5
MCHC (g/dL) ¹	32.0	31.5	32.0
NRBC/100 WBC	0-4	0-0	0-1
Reticulocytes (%)	4.6-6.6	2.6-6.2	1.0-6.0
WBC (K/uL)	8.5-16.4	12.6-26.7	12.7-17.3
Band neutrophils (K/uL)	0-0.3	0-0.3	0-0.3
Neutrophils (K/uL)	3.7-12.8	4.2-17.6	6.2-11.8
Lymphocytes (K/uL)	1.0-8.4	2.8-16.6	3.1-6.9
Monocytes (K/uL)	0.3-1.5	0.5-2.7	0.4-1.7
Eosinophils (K/uL)	0-0.7	0.1-1.9	0-1.2
Basophils (K/uL)	0.0-0.15	0.0	0.0

Earl FL, Melvegar BA, Wilson RL: The hemogram and bone marrow profile of normal neonatal and weanling beagle dogs. Lab Anim Sci 1973;23:690.

¹ Means only reported.

Serum Biochemical Values in Healthy Young Dogs

VALUE	0-3 MONTHS	>3-6 MONTHS
ALP (IU/L) ^a	92-528	129-435
ALT (IU/L) ^a	0-29	0-32
GGT (IU/L) ^a	0-6	0-4
CK (IU/L) ^a	33-253	42-190
Bilirubin (mg/dL) ^b	0-0.32	0-0.21
Sodium (mEq/L) ^c	140-156	139-159
Potassium (mEq/L) ^c	4.5-6.3	3.9-6.1
Chloride (mEq/L) ^c	98-114	96-116
Calcium (mg/dL) ^c	10.5-13.6	10.1-13.2
Phosphorus (mg/dL) ^c	6.4-11.3	5.6-9.6

VALUE	0-3 MONTH	>3-4 MONTHS	>4 - <6 MONTHS
Creatinine (mg/dL) ^b	0.19-0.69	0.21-0.78	0.43-0.80
Protein (g/dL) ^b	3.9-5.7	4.2-6.1	4.6-6.0

^aKraft W, Hartmann K, Dereser R: Age dependency of laboratory values in dogs and cats. Part I: Activities in serum enzymes.

^bKraft W, Hartmann K, Dereser R: Age dependency of laboratory values in dogs and cats. Part III: Bilirubin, creatinine, and protein in blood serum. Tierarztl Prax 1996;24:610.

^cKraft W, Hartmann K, Dereser R: Age dependency of laboratory values in dogs and cats. Part II: Serum electrolytes.

Please note only chemistry values that are significantly different in puppies compared to adults are listed.

Hematology Values in Healthy Kittens

VALUE	6-8 WEEKS	8-9 WEEKS	12-13 WEEKS	16-17 WEEKS
RBC (M/uL)	6.06-7.08	6.77-7.13	6.98-7.88	7.61-8.67
Hemoglobin (g/dL)	8.5-9.7	9.4-10.2	9.5-10.7	10.2-11.8
PCV (%)	27.3-32.4	31.9-34.7	30.0-36.2	32.7-37.1
MCV (fL) ¹	43.6-47.6	46.0-49.6	41.0-48.0	40.2-46.0
MCH (pg) ¹	13.3-14.5	13.7-14.5	12.9-14.5	12.7-14.3
MCHC (g/dL) ¹	29.9-31.9	28.7-30.3	29.5-33.1	30.0-33.2
WBC (K/uL)	14.27-21.87	19.98-27.38	16.61-29.79	17.5-21.9
Band neutrophils (K/uL)	0.06-0.38	0.00-0.30	0.01-0.29	0.02-0.30
Neutrophils (K/uL)	4.73-8.77	8.24-13.76	7.53-14.47	7.94-11.54
Lymphocytes (K/uL)	6.51-12.67	6.82-13.52	5.34-15.58	6.62-10.78
Monocytes (K/uL)	0.0-0.03	0.00-0.23	0.00-0.0	0.00-0.06
Eosinophils (K/uL)	0.69-1.47	1.67-2.89	0.86-2.24	0.63-1.37
Basophils (K/uL)	0.00-0.06	0.00-0.0	0.00-0.09	0.00-0.00

Meyers-Wallen VN, Haskins ME, Patterson DF: Hematologic values in healthy neonatal, weanling, and juvenile kittens. Am J Vet Res 1984;45:1322.

Serum Biochemical Values in Healthy Kittens

VALUE	0-3 MONTHS	>3-6 MONTHS
ALP (IU/L) ^a	10-558	40-330
ALT (IU/L) ^a	10-50	0-76
CK (IU/L) ^a	0-186	0-158
Creatinine (mg/dl) ^b	0.16-1.26	0.33-1.21
Protein (g/dl) ^b	4.7-7.6	5.3-8.2
Potassium (mEq/L) ^c	3.7-6.1	4.2-5.8
Chloride (mEq/L) ^c	97-125	102-122
Phosphorus (mg/dL) ^c	6.5-10.1	6.0-10.4

^aKraft W, Hartmann K, Dereser R: Age dependency of laboratory values in dogs and cats. Part I: Activities in serum enzymes.

^bKraft W, Hartmann K, Dereser R: Age dependency of laboratory values in dogs and cats. Part III: Bilirubin, creatinine, and protein in blood serum. Tierarztl Prax 1996;24:610.

^cKraft W, Hartmann K, Dereser R: Age dependency of laboratory values in dogs and cats. Part II: Serum electrolytes.

Please note that only chemistry values that are significantly different in kittens compared to adults are listed.