

## LAB WORK REFERENCE RANGES BY BREED

### Complete Blood Cell Count

Parameter	Below reference range	Above reference range
Red blood cell count	Maine Coone cat	Sighthound, miniature Dachshund, Dachshund
Mean corpuscular volume	Shiba Inu, Akita, Hokkaido, Abyssinian	Sighthound, Miniature and toy poodle, Maine Coon cat
Mean corpuscular hemoglobin conc	Shiba Inu, Akita, Hokkaido	Sighthound, miniature Dachshund, Dachshund, Maine Coon cat
White blood cell and neutrophil counts	Sighthound, cat	-
Platelet count	Cavalier King Charles Spaniel, Cairn Terrier, Norfolk Terrier, Jack Russell Terrier, Bichon Frise, Mini Schnauzer, Boxer, Havanese, Shih Tzu, Greyhound	-

### Complete Blood Cell Count: Smear Anomaly Notes

Anomaly	Notes
<b>Grey eosinophils</b>	Eosinophils with greyish cytoplasm and vacuolation. Can be confused with toxic neutrophils, and may be incorrectly counted by hematology analysers. Greyhound.
<b>Reddish granulation of neutrophils</b>	Reddish granulation of neutrophils which does not affect their function. Appearance can be misinterpreted as toxic change. Birman cat.
<b>Pelger-Huët anomaly</b>	Inherited condition causing hypo-segmentation of neutrophils, eosinophils, and basophils. Affected neutrophils appear immature (left shift), however, toxic change should not be present, and there is no effect on function of the cells. Multiple breeds, although most common in the Australian Shepherd.

### Other Parameters

Parameter	Below reference range	Above reference range
TT4	Greyhound, NA Scottish Deerhound, Dogue de Bourdeaux, other sighthounds	-
ft4	Greyhound, Saluki, Sloughi	-
PTT	-	Himalayan, Siamese, DSH, DLH
ACT	-	Himalayan, Siamese, DSH, DLH

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### Serum Biochemistry

Parameter	Below reference range	Above reference range
ALT	-	Greyhound, Italian Greyhound, Whippet, Ariégeois, Bleu de Gascogne, Bracco Italiano, Segugio Italiano
AST	-	Dogue de Bordeaux, Greyhound, North American Scottish Deerhound, Bleu de Gascogne, Segugio Italiano
ALP	-	Bernese Mountain Dog, North American Scottish Deerhound, Maine Coon cat, Norwegian Forest Cat
GGT	-	Bernese Mountain Dog, Maine Coon cat
Urea	-	Yorkshire Terrier, Maine Coon cat, Birman cat
Creatinine	-	Greyhound, Birman cat
SDMA	-	Greyhound
Cholesterol	Miniature Dachshund, Shiba Inu	Bernese Mountain Dog, Dogue de Bordeaux, North American Scottish Deerhound, Newfoundland Dog, Shetland Sheepdog, Miniature Schnauzer
Triglyceride	-	Shetland Sheepdog, Miniature Schnauzer
Glucose	German Shepherd puppies less than 8 weeks old, adult North American Scottish Deerhound, Ragdoll cat	Shetland Sheepdog, Birman cat
Serum protein	Greyhound, other sighthounds	Miniature Schnauzer, Maine Coon cat, Abyssinian cat, Siberian cat
Albumin	-	Miniature Schnauzer, Maine Coon cat
Globulin	Greyhound, other sighthounds	Birman cat
Sodium	Pug	Greyhound
Chloride	Pug, North American Scottish Deerhound	Greyhound
Potassium	-	Akita, Shiba Inu, Chinese-Shar Pei, other East Asian dog breeds
Calcium	Greyhound, North American Scottish Deerhound, other sighthounds	Norwegian Forest Cat
Phosphorus	Whippet, Borzoi, Italian Greyhound, Greyhound	Norwegian Forest Cat
Magnesium	Brachycephalic breeds	-
Creatine Kinase	Ragdoll cat	Greyhound, other sighthounds