

PARATHYROID HORMONE (canine)

SAMPLE REQUIRED:
Frozen serum, minimum 1.0mL

BLOOD TUBE REQUIRED:
Serum tube, red top

Canine PTH can now be run at Vetnostics in Sydney. This assay has **currently only been validated in dogs**, and an interim reference interval has been established and may be refined over time.

Feline and equine samples are still sent overseas for analysis. Please call to discuss further if you would like to discuss the limitations of performing this test in these species.

Note that PTHrP testing is not currently available in Australia.

INDICATIONS:

- Investigation of unexplained hypercalcaemia or hypocalcaemia.

COLLECTION PROTOCOL:

- A fasting sample is preferred.
- Collect at least 2mL of blood directly into a plain (red top) vacutainer.
- Allow the blood to clot at room temperature (15-30 minutes).
- Centrifuge the sample and transfer serum into a second plain (red top) tube with no additives
- Freeze serum and call the lab to request a dry ice pick up (Melbourne metro clients); regional clinics will need to contact the laboratory to discuss transport options

NOTES:

- If ionised calcium is also required, a separate tube will be required. Please see the collection protocol for ionised calcium for sample handling requirements.
- If ionised calcium is assayed in-house (recommended at time of PTH sample collection), please submit the ionised calcium result along with the submission form.
- A full clinical history (biochemistry, imaging, clinical examination findings, medications, etc.) is required to assist with result interpretation.

INTERPRETATION:

Conditions	iCa	Phosphate	PTH
Primary hyperparathyroidism	High	Low	Normal or high
Hypercalcaemia of Malignancy	High	Normal or low	Low
Renal failure	Low, normal or high	High (dogs and cats) Low (horses)	Low (horses)
Vitamin D intoxication	High	High	Low