



SNAP[®] T4 Testing Guide





Canine

Canine Hypothyroidism

Disease Screening Protocol

Select

LOW

Dynamic Range

6.4–45.0 nmol/L
(0.5–3.5 µg/dL)

Therapeutic Monitoring Protocol

Select

HIGH

Dynamic Range

25.7–90.0 nmol/L
(2.0–7.0 µg/dL)

SNAP® T4 Reference Range

Low	<10 nmol/L	(<0.8 µg/dL)
Borderline Low	10–20 nmol/L	(0.8–1.5 µg/dL)
Normal	21–64 nmol/L	(1.6–5.0 µg/dL)
High	>64 nmol/L	(>5.0 µg/dL)
Therapeutic	39–77 nmol/L	(3.0–6.0 µg/dL)

Canine Screening

Dogs with subnormal T4 results may be hypothyroid or euthyroid sick.

- Dogs with T4 results in the borderline low range may be hypothyroid.
- In dogs with consistent clinical signs, consider a free T4 by equilibrium dialysis, endogenous TSH or, when available a TSH stimulation to aid in confirming hypothyroidism.

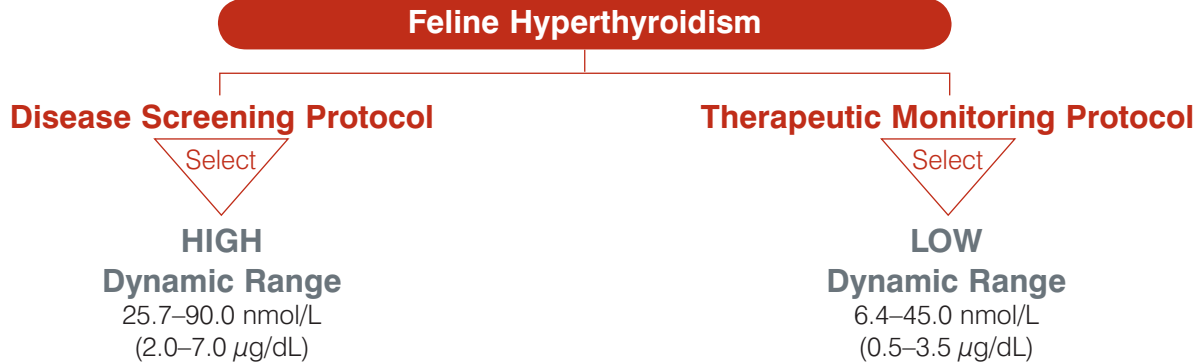
Hypothyroidism Therapeutic Monitoring

For dogs receiving thyroxine supplementation, the total T4 value should fall within the upper half of the reference range or slightly above.

Note: 1 µg/dL is equal to 12.87 nmol/L. A result that falls within the borderline range of the assay should be considered ambiguous.



Feline



SNAP® T4 Reference Range

Low	<13 nmol/L	(<1.0 µg/dL)
Normal	13–64 nmol/L	(1.0–5.0 µg/dL)
Borderline High	32–64 nmol/L	(2.5–5.0 µg/dL)
High	>64 nmol/L	(>5.0 µg/dL)

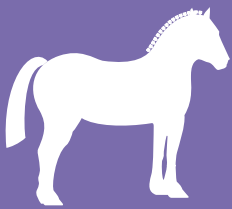
Feline Screening

Older cats with consistent clinical signs and T4 values in the borderline high range may have early hyperthyroidism or a concurrent nonthyroidal illness. In these cases, consider repeating the test in 2 to 4 weeks or performing a free T4 by equilibrium dialysis. Alternatively, a T3 suppression test or radionuclide thyroid imaging can aid in confirming the diagnosis.

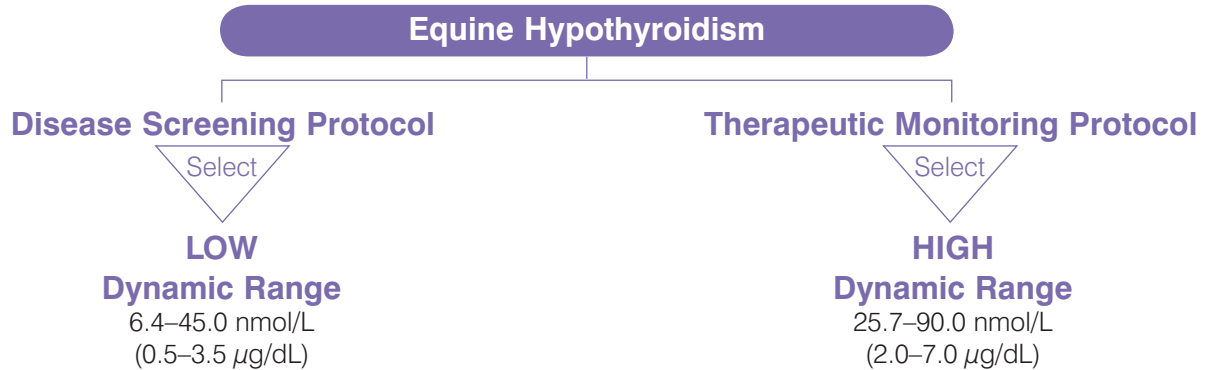
Hyperthyroidism Therapeutic Monitoring

Following appropriate treatment with thiamazole (methimazole), T4 values will generally fall within the lower half of the normal reference range.

Note: 1 µg/dL is equal to 12.87 nmol/L. A result that falls within the borderline range of the assay should be considered ambiguous.



Equine



SNAP® T4 Reference Range

Low	<12 nmol/L	(<0.9 µg/dL)
Normal	12–36 nmol/L	(0.9–2.8 µg/dL)
High	>36 nmol/L	(>2.8 µg/dL)

Note: 1 µg/dL is equal to 12.87 nmol/L.





IDEXX Laboratories Limited
Milton Court, Churchfield Road
Chalfont St. Peter
Buckinghamshire SL9 9EW, UK
www.idexx.co.uk

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