# SNAP® Total T4 Testing Guide

## Canine Hypothyroidism

#### **Dynamic Range**

0.5–7.0 μg/dL (6.4–90.0 nmol/L)

#### SNAP® Total T4 Results

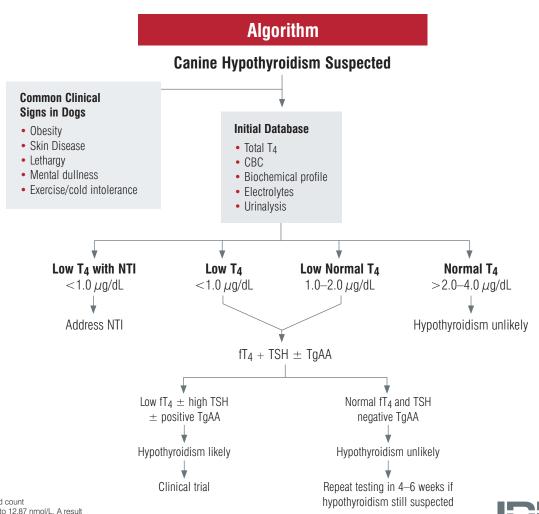
Low	$<$ 1.0 $\mu$ g/dL	(<13 nmol/L)
Low Normal	1.0–2.0 $\mu$ g/dL	(13–26 nmol/L)
Normal	$1.0 ext{}4.0~\mu { m g/dL}$	(13–51 nmol/L)
High	$>$ 4.0 $\mu$ g/dL	(>51 nmol/L)
Therapeutic	2.1-5.4 ug/dl	(27–69 nmol/L)

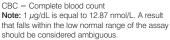
#### **Canine Screening**

- Dogs with low total T<sub>4</sub> (T<sub>4</sub>) and evidence of nonthyroidal illness (NTI) should have NTI addressed.
- Dogs with T<sub>4</sub> results in the low normal range may be hypothyroid.
- In dogs with low or low normal T<sub>4</sub> results and with consistent clinical signs, consider free T<sub>4</sub> (fT<sub>4</sub>) and endogenous thyroid-stimulating hormone (TSH) and possibly thyroglobulin autoantibodies (TgAA) to aid in confirming hypothyroidism.

#### **Hypothyroidism Therapeutic Monitoring**

For dogs on thyroid supplement, acceptable 4–6-hour post-pill  $T_4$  values will generally fall in the upper end of the reference range or slightly above.







# SNAP® Total T<sub>4</sub> Testing Guide

### Feline Hyperthyroidism

#### **Dynamic Range**

0.5–7.0 μg/dL (6.4–90.0 nmol/L)

#### **SNAP® Total T<sub>4</sub> Results**

Subnormal  $< 0.8 \,\mu\text{g/dL}$  (<10 nmol/L)

Normal  $0.8-4.7 \mu g/dL$  (10-60 nmol/L)

Gray zone in old

or symptomatic cats  $2.3-4.7 \mu g/dL$  (30-60 nmol/L)

Consistent with

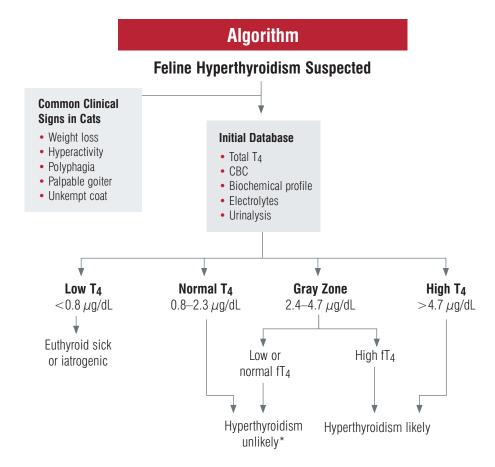
hyperthyroidism  $>4.7 \mu g/dL$  (>60 nmol/L)

#### **Feline Screening**

Cats with consistent clinical signs and total  $T_4$  ( $T_4$ ) values in the borderline high range (gray zone) may have early hyperthyroidism or a concurrent nonthyroidal illness (NTI). In these cases, consider a free  $T_4$  ( $T_4$ ), a  $T_3$  suppression test or radionuclide thyroid imaging to aid in confirming the diagnosis.

#### **Hypothyroidism Therapeutic Monitoring**

Following treatment with methimazole, T<sub>4</sub> values will generally fall within the lower to midportion of the reference range.



<sup>\*</sup>If strong suspicion of hyperthyroidism still exists, consider retesting in 4–6 weeks or a technetium scan.



# SNAP® Total T4 Testing Guide

## Equine Hypothyroidism

#### **Dynamic Range**

0.5–7.0 μg/dL (6.4–90.0 nmol/L)

#### SNAP® Total T<sub>4</sub> Results

Low <1.0 μg/dL (<13 nmol/L) Normal 1.0–3.8 μg/dL (13–49 nmol/L) High >3.8 μg/dL (>49 nmol/L)

Note:  $1 \mu g/dL$  is equal to 12.87 nmol/L.

