



Gribbles Veterinary Pathology  
37-41 Carbine Road  
Mt Wellington  
Ph: 09 5744701  
Fax: 09 5745304

**Case No: AU1414307**

<b>Report To:</b>	Veterinary Associates Takanini P.O.Box 75086 Manurewa Auckland 2243	<b>Species:</b>	Canine	<b>Age:</b>	5 YEAR(S)
		<b>Breed:</b>	BeardedColl.	<b>Sex:</b>	Female
<b>Submitted by:</b>	VETERINARY ASSOCIATES TAK	<b>Date Sent:</b>	21/07/2014 11:50		
<b>Submitter ref:</b>	86517A	<b>Date Received:</b>	21/07/2014 11:50		
<b>Owner:</b>	ANDERSON	<b>Date Tested:</b>	23/07/2014 11:12		
		<b>Notification:</b>	Fax, Email		
<b>Animal/Herd:</b>	LLANDDONA LADY	<b>Fax Number:</b>	6492998629		

Tests Requested: 3 x Serum - NZ Kennel Club Panel  
1 x Serum - T4 (Canine)

**Chemistry**

	<b>LLANDDONA LADY IN RED</b>		
T4 (Canine)	26.0	Units nmol/L	Ref Range 18 - 48

ADDITIONAL TEST RESULTS AS REQUESTED: 23/07/14 - T4.



Gribbles Veterinary Pathology  
37-41 Carbine Road  
Mt Wellington  
Ph: 09 5744701  
Fax: 09 5745304

## Case No: AU1414307 - Interim Report

<b>Report To:</b>	Veterinary Associates Takanini P.O.Box 75086 Manurewa Auckland 2243	<b>Species:</b>	Canine	<b>Age:</b>	5 YEAR(S)
<b>Submitted by:</b>	VETERINARY ASSOCIATES TAK	<b>Breed:</b>	Bearded Coll.	<b>Sex:</b>	Female
<b>Submitter ref:</b>	86517A	<b>Date Sent:</b>	21/07/2014 11:50		
<b>Owner:</b>	ANDERSON	<b>Date Received:</b>	21/07/2014 11:50		
		<b>Date Tested:</b>	22/07/2014 16:50		
<b>Animal/Herd:</b>	LLANDDONA LADY	<b>Notification:</b>	Fax, Email		
		<b>Fax Number:</b>	6492998629		

Tests Requested: 3 x Serum - NZ Kennel Club Panel

## Chemistry - Cumulative

AU1414307  
21/07/2014  
LLANDDON  
A LADY IN  
RED

Units Ref Range

Free T4 PENDING  
TSH 0.33 H

pmol/l 10 - 39  
ng/ml 0.03 - 0.32

Equivocal TSH levels: 0.33 - 0.60 ng/ml

20-40% of hypothyroid dogs will have TSH within these intervals

If the T4 is low ( $\ll 19$ ) and:

- is accompanied by appropriate clinical signs
- there are chemistry and/or haematological findings (significant fasting hypercholesterolaemia, mild normochromic anaemia)
- there is no supporting evidence of non-thyroid illness (euthyroid sick syndrome)
- no use of anticonvulsant drugs and glucocorticoids

then this result may reflect canine hypothyroidism and a treatment trial could be a consideration.

The TSH sensitivity ranges from 63-82% and has >90% specificity when used in conjunction with a serum T4 level.

Reference- Feldman & Nelson, Canine & Feline Endocrinology 3rd edit 2004

Free T4 performed and reported by Gribbles Veterinary, Puddle Alley, Mosgiel, Dunedin

TSH performed and reported by Gribbles Veterinary, Sunshine Ave, Hamilton



Gribbles Veterinary Pathology  
37-41 Carbine Road  
Mt Wellington  
Ph: 09 5744701  
Fax: 09 5745304

## Case No: AU1414307

<b>Report To:</b>	Veterinary Associates Takanini P.O.Box 75086 Manurewa Auckland 2243	<b>Species:</b>	Canine	<b>Age:</b> 5 YEAR(S)
		<b>Breed:</b>	Bearded Coll.	<b>Sex:</b> Female
<b>Submitted by:</b>	VETERINARY ASSOCIATES TAK	<b>Date Sent:</b>	21/07/2014 11:50	
<b>Submitter ref:</b>	86517A	<b>Date Received:</b>	21/07/2014 11:50	
<b>Owner:</b>	ANDERSON	<b>Date Tested:</b>	23/07/2014 11:12	
<b>Animal/Herd:</b>	LLANDDONA LADY	<b>Notification:</b>	Fax, Email	
		<b>Fax Number:</b>	6492998629	

Tests Requested: 3 x Serum - NZ Kennel Club Panel  
1 x Serum - T4 (Canine)

## Serology

Animal ID TGAA ELISA

LLANDDONA LADY  
IN RED Negative

### TGAA

Thyroglobulin Autoantibody ELISA.

Hypothyroidism may result from either lymphocytic thyroiditis or less commonly, idiopathic atrophy of the thyroid gland. Lymphocytic thyroiditis is usually associated with a positive thyroglobulin autoantibody (TgAA) test, while idiopathic atrophy is usually negative for TgAA.

TgAA is a marker for lymphocytic inflammation and is a predictor of lymphocytic thyroiditis, but is not a function test.

TgAA may become positive before clinical signs of hypothyroidism are apparent but vaccination in some dogs is also thought to give a transient positive result. Dogs that test positive for TgAA may go on to become clinically hypothyroid within twelve months, but a proportion of dogs (15%) do not become hypothyroid and become TgAA negative after 12 months.

TGAA ELISA performed and reported by Gribbles Veterinary, Tremaine Ave, Palmerston North