



MICHIGAN STATE UNIVERSITY  
**VETERINARY DIAGNOSTIC  
 LABORATORY**

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REPORT OF LABORATORY EXAMINATION

Client:

Hamby Road Animal Hospital (28883)  
 3785 Hamby Road  
 Alpharetta, GA 30004

Owner:

Jacobs/Jacobs, Logan/Nichole

Rcvd Date: 12/11/2021 8:07:00 AM  
 Admitted By: Not Provided  
 Ordered By: Not Provided  
 Encounter: 03198397  
 CR#: AP

Animal: COLTER  
 Species: Canine  
 Age: 2 years  
 Tag/Reg ID: Hugo Betegles  
 Other ID: 688032000047708

MRN: WS71013801  
 Breed: Doberman Pinscher  
 Gender: Male

***E n d o c r i n o l o g y***

**Endocrine History**

Collected Date/Time (If Provided)	12/11/2021 8:07:00		
Procedure		Ref Range	Units
Sample temperature	54		DegF

**Endocrine Results**

Collected Date/Time (If Provided)	12/11/2021 8:07:00		
Procedure		Ref Range	Units
Free T4 by dialysis (RIA)	18	[6-42]	pmol/L
Thyroid Stimulating Hormone (CLIA) *	0.09	[0.00-0.58]	ng/mL
Thyroglobulin Autoantibody (ELISA) *	0		%
OFA Classification	See Below		
Total Thyroxine (T4) (CLIA) OFA *	9	[9-52]	nmol/L
Total Triiodothyronine (T3) (RIA) *	.9	[0.8-2.1]	nmol/L
T4 Autoantibody (RIA)	10	[0-20]	%
T3 Autoantibody (RIA)	3	[0-10]	%

12/11/2021 8:07:00 OFA Classification  
 OFA CLASSIFICATION = NORMAL

Brian Petroff D.V.M. Ph.D.  
 Endocrinology Section, MSU VDL

L = Low Result; H = High Result; @ = Critical Result; ^ = Corrected Result; \* = Interpretive Data; # = Result Footnote

Print Date/Time: 12/16/2021 3:01 PM

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Admitted By: Not, Provided	Species: Canine	MRN: WS71013801
Encounter: 03198397	Animal: COLTER	Owner: Jacobs/Jacobs, Logan/Nichole

## *E n d o c r i n o l o g y*

### Endocrine Results

12/11/2021 8:07:00 AM Thyroid Stimulating Hormone (CLIA):

The Endocrine Section at DCPAH has adopted a chemiluminescent immunometric assay for measurement of canine TSH (Immulite 2000 XPi). This assay has been used in many clinical studies in dogs and cats. With this change, we will now be reporting results in ng/mL, the commonly used units for this assay.

12/11/2021 8:07:00 AM Thyroglobulin Autoantibody (ELISA):

< 10% Negative  
10 - 25 % Inconclusive  
> 25% Positive

12/11/2021 8:07:00 AM Total Thyroxine (T4) (CLIA) OFA:

Canine and feline total T4 methodology: Total T4 is now measured in canine and feline sera using a commercially available automated chemiluminescent assay (Immulite 2000xpi assay L2KCT2). The assay is used by a number of laboratories for companion animals. Within our laboratory, total T4 as measured by a previously validated radioimmunoassay method and the Immulite 2000xpi in 160 canine and 154 feline samples gave results that were highly correlated ( $r > 0.938$ ). We will continue to measure total T4 in other species with the previous radioimmunoassay.

12/11/2021 8:07:00 AM Total Triiodothyronine (T3) (RIA):

The MSU VDL's thyroid testing will no longer include measurement of free T3. Endocrinology laboratory will continue to assess T3, the active form of thyroid hormone, as total T3.

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