

# Gastrointestinal Disease Report



**VDI Lab Services**  
 4685 Runway St. Ste K Simi Valley, CA 93063  
 ph: 805-577-6742 fax: 805-426-8115

**PATIENT NAME:** Tori Alvarez  
**SPECIMEN ID:** 177193  
**SPECIES:** Canine  
**GENDER:** Female  
**AGE:** 0.8  
**WEIGHT:** 3 lb  
**BREED:** Pomeranian

**MRN:** 1102269  
**DRAW DATE:** 4-Mar-23  
**RECEIVED DATE:** 7-Mar-23  
**REPORT DATE:** 8-Mar-23  
**SAMPLE TYPE:** Frozen Serum

**VETERINARIAN:**  
**FACILITY:**

## Gastrointestinal Disease - Dashboard

Gastrointestinal Disease - Dashboard				Related Tests	
<b>B12</b> High <b>1466.6</b> <small>Normal: 220-1080 pg/mL</small>	<b>Folate</b> Low <b>&lt;2.4</b> <small>Normal: 4.3 - 21.0 ng/mL</small>	<b>Vitamin D</b> Sufficient <b>135.5</b> <small>Sufficiency: 100-150 ng/mL</small>	<b>Magnesium</b> Normal <b>2.2</b> <small>Normal: 1.7-2.9 mg/dL</small>	<b>Allergies</b> Present <b>See Allergy Report</b>	
<b>CRP</b> Mild <b>5.1</b> <small>Normal: ≤ 4.0</small>	<b>TK1</b> High <b>20.2</b> <small>Normal: &lt;3.0 U/L</small>	<b>Neoplasia Index</b> Negative <b>3.9</b> <small>Negative: ≤ 5.2</small>	<b>cPL</b> Normal <b>&lt;50</b> <small>Normal: &lt;200 ng/mL</small>		<b>Addison's</b> <b>Cortisol</b> Normal <b>2.5</b> <small>Normal: 2 - 6 ug/dL</small>
<b>Total Protein</b> Normal <b>6.5</b> <small>Range: 5.8 - 8.8 g/dL</small>	<b>Albumin</b> Normal <b>3.3</b> <small>Range: 2.9 - 4.3 g/dL</small>	<b>Globulin</b> Normal <b>3.2</b> <small>Range: 2.7 - 4.6 g/dL</small>	<b>A/G Ratio</b> Normal <b>1.0</b> <small>Range: 0.7 - 1.5</small>		<b>Cholangitis</b> <b>ALT ALP</b> Normal <b>88.0 62.0</b> <small>ALT range: 10-110 U/L                      ALP range: 9-160 U/L</small>

### Interpretation of results based upon patient exhibiting GI signs

#### Chronic Enteropathy 2240

<b>IBD</b>	High Confidence
<b>LSA clinical score: 1 out of 4</b> <small>Wt Loss, Vomiting, ✓Diarrhea, Inappetance</small>	
Pattern is consistent with IBD. An ultrasound is recommended.	

#### Pancreatitis 1440

<b>Not Detected</b>	No Action
<b>Pancreatitis clinical score: 0 out of 4</b>	
Negative pancreatic lipase and other parameters are not supportive of pancreatitis.	

#### Protein Losing Enteropathy 1111

<b>Normal</b>	No Action
There is no evidence the patient has PLE.	

#### Essential Vitamins 1143

<b>Deficiencies Detected</b>	Evaluate B12 / Folate
Patient has a folate deficiency with elevated B12 - see report for possible reasons. Elevated B12 may be associated with excess supplementation, underlying GI disease, and/or hepatobiliary disease.	

#### Reviewer Comments - need consult? email consult@vdi lab.com

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**REPORT DATE:** 8-Mar-2023

Relevant Context (provided on TRF)

<input type="checkbox"/>	Corticosteroids	<input type="checkbox"/>	Antibiotics
<input type="checkbox"/>	NSAIDs	<input type="checkbox"/>	Suspected Mass
<input checked="" type="checkbox"/>	GI Signs	<input type="checkbox"/>	Enlarged Node

**Other Recommended Tests or Procedures to Perform**  
ultrasound

need consult? email [consult@vdiilab.com](mailto:consult@vdiilab.com)

Neoplasia Index®

**cGI.LSA**  
**Negative**  
**3.9**  
Index



Negative: ≤ 5.2  
Equivocal: 5.3  
Positive: 5.4 - 8.1  
High Positive: ≥ 8.2

Interpretive Comments

Results are **INCONSISTENT** with GI LSA

Patient's Neoplasia Index is negative and inconsistent with intestinal lymphoma. This profile of TK1/ CRP/ B12 is consistent with inflammatory bowel disease. An ultrasound is recommended.

**TK1**  
**High**  
**20.2**  
U/L



Normal: ≤ 3.0  
Equivocal: ≤ 6.6  
High: 6.6 - 24.9  
Highly Elevated: ≥ 25.0

Interpretive Comments

Results are consistent with: **IBD**

TK1 is highly elevated with a mild inflammatory response and commonly found in inflammatory bowel disease. If the patient is on corticosteroids, both TK1 and CRP may be higher as these medications suppress the inflammatory and proliferative response.

**CRP**  
**Mild**  
**5.1**  
mg/L



Normal: ≤ 3.9  
Mild Inflam: 4 - 9.9  
Mod Inflam: 10 - 39.9  
High Inflam: ≥ 40

<b>Cobalamin</b> <b>High</b> <b>1466.6</b> pgm/L	<b>Folate</b> <b>Low</b> <b>&lt;2.4</b> ng/mL
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Low: <220  
Low Normal: 220 - 400  
Normal: 220 - 1080  
High: ≥1080

Low: <4.3  
Normal: 4.3 - 21.0  
High: >21.0

Interpretive Comments

Patient has high B12 levels and low folate. High B12 is usually associated with dietary intake or excess supplementation. Low Folate and High B12 is sometimes seen with proximal SI damage or antibiotic use.

**Contextual Comments (if needed)**

profile code 12250 IBD

\* The classification of LSA is based upon test result profiling and should not be considered definitive. It is most reliable in the untreated dog. Patient disease classification will be affected if the patient is on corticosteroids or other anti-inflammatory or anti-proliferative medications. An ultrasound is always recommended and should be supportive of test results. If ultrasound and test results conflict, it is recommended the test be repeated in 3-4 weeks with the patient off of corticosteroids. If the test requisition indicates the patient is on corticosteroids, the Neoplasia Index will be adjusted for the effect medication may have on TK1/HPT. For definitive disease classification (eg, small cell, large cell), a biopsy is required.

# Allergy Panel Dashboard



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## Food Allergens

Allergen	Class	Group	Allergen	Class	Group
Duck meat	1	Meat			
Turkey meat	1	Meat			
Corn	1	Grain			
Pea	1	Veg			
Sweet Potato	1	Veg			
Pumpkin	1	Veg			
Egg white	1	Egg			
Peanut	1	Nut			
Oat	1	Grain			
Blueberry	1	Fruit			
Parsely	1	Veg			

## Environmental Allergens

Allergen	Class	Group	Allergen	Class	Group
European dust mite	1	Mite			
Cheese/mold mite	1	Mite			
Alder/Birch	1	Tree			
Maple leaf sycamore	1	Tree			
Oak	1	Tree			
Mugwort	1	Weed			
Cat Epithelium	1	Animal			

Total Class 1

**18**

Total Class 2

**0**

Total Class 3

**0**

**Responsive Groups**

Tree

**Clinical Signs Associated with Canine AD**

5+ is consistent with canine AD

**Criteria Not Provided**

- Affected ear pinnae
- Affected front feet
- Age of onset <3 years
- Chronic/recurrent yeast infections
- Corticosteroid-responsive pruritis
- Mostly indoor lifestyle
- Nonaffected dorsolumbar area
- Pruritis without skin lesions at onset

**Inflammation**

**Mild**  
**5.1**

Normal: ≤ 4.0

**Vitamin D**

**Sufficient**  
**135.5**

Sufficiency:  
100-150 ng/mL

**Mark criteria above. 5+ is significant**

Canine atopic dermatitis (CAD) is typically associated with hypersensitivity to environmental allergens, although food allergies may coexist. Prior to a diagnosis of CAD, fleas and other ectoparasites should be ruled-out. Clinical criteria have been developed to help distinguish CAD. Allergen tests are not diagnostic in isolation. Rather, they support a clinical diagnosis of CAD and are used to indicate which allergens may be triggering the disease.

The most common CAD associated environmental allergens are pollens (grass, weed and/or tree), dust, mites, and mold, and common food allergens are beef, chicken, dairy, and wheat.

IgE has a relatively short half-life therefore class 1 allergens may represent weak allergic responses unrelated to CAD or prior allergy that the patient is not currently exposed to (ie, seasonal allergies) - care should be given to class 1 allergens accordingly. Class 2 and 3 allergens are moderate/strong reaction and worthy of immediate investigation.

Vitamin D plays an important role in the immune regulatory process and patients low in Vitamin D should be supplemented. If Vitamin D is deficient, a change in food may be warranted. Food changes require a 60-day equilibrium and retesting prior to D3 supplementation. Vitamin D has been shown to have a steroid sparing effect.

**Reviewer Comments - need consult? email [consult@vdiilab.com](mailto:consult@vdiilab.com)**



# Allergy Page 1 - Food

**PATIENT NAME:** Tori Alvarez  
**SPECIMEN ID #:** 177193  
**SPECIES / SEX:** Canine / F  
**BREED:** Pomeranian  
**AGE:** 0.8  
**WEIGHT:** 3 lb

**MRN:** 1102269  
**COLLECTION DATE:** 4-Mar-23  
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**SAMPLE TYPE:** Serum

**VETERINARIAN:**  
**FACILITY:**

Class	Response	IU/mL	NT = Not Tested	Responses	TOTAL ALLERGEN RESPONSES
0	None	≤ 0.34		Class 1: 18	<b>18</b>
1	Low	0.35 - 3.49		Class 2: 0	
2	Medium	3.5 - 49.99		Class 3: 0	
3	High	≥ 50			

*See page 2 for more info*

## FOOD ALLERGENS

Meat		Responses: 2			
No	Name	Panel	IU/mL	Class	
1	Pork	Allergy I	<0.15	0	
2	Beef	Allergy I	<0.15	0	
3	Duck	Allergy I	0.63	1	
4	Chicken	Allergy I	<0.15	0	
5	Lamb	Allergy I	<0.15	0	
6	Turkey	Allergy I	0.7	1	
7	Red deer	Allergy I	<0.15	0	
8	Rabbit	Allergy II	<0.15	0	

Dairy*		Responses: 0			
No	Name	Panel	IU/mL	Class	
38	Milk	Allergy I	<0.15	0	
39	Cheddar/gouda cheese	Allergy I	<0.15	0	
40	α-lactalbumin	Allergy II	<0.15	0	
41	β-lactoglobulin	Allergy II	<0.15	0	
42	Casein	Allergy II	<0.15	0	
43	Buttermilk	Allergy II	<0.15	0	

Egg		Responses: 1			
No	Name	Panel	IU/mL	Class	
44	Egg white	Allergy I	0.7	1	
45	Egg yolk	Allergy I	<0.15	0	

Yeast		Responses: 0			
No	Name	Panel	IU/mL	Class	
46	Yeast, baker's	Allergy I	<0.15	0	
47	Yeast, brewer's	Allergy II	<0.15	0	

Vegetable, Fruit, Nut		Responses: 6			
No	Name	Panel	IU/mL	Class	
9	Pea	Allergy I	0.38	1	
10	Soy bean	Allergy I	<0.15	0	
11	Carrot	Allergy I	<0.15	0	
12	Potato	Allergy I	<0.15	0	
13	Sweet Potato	Allergy I	0.70	1	
14	Pumpkin	Allergy I	0.8	1	
29	Parsely	Allergy II	0.7	1	
30	Cabbage	Allergy II	<0.15	0	
31	Cucumber	Allergy II	<0.15	0	
32	Broccoli	Allergy II	<0.15	0	
33	Cauliflower	Allergy II	<0.15	0	
34	Radish	Allergy II	<0.15	0	
35	Paprika	Allergy II	<0.15	0	
36	Spinach	Allergy II	<0.15	0	
15	Tomato	Allergy I	<0.15	0	
16	Apple	Allergy I	<0.15	0	
17	Orange	Allergy II	<0.15	0	
18	Strawberry	Allergy II	<0.15	0	
19	Blueberry	Allergy II	0.55	1	
20	Kiwi	Allergy II	<0.15	0	
21	Melon	Allergy II	<0.15	0	
22	Mango	Allergy II	<0.15	0	
23	Banana	Allergy II	<0.15	0	
24	Peach	Allergy II	<0.15	0	
25	Pear	Allergy II	<0.15	0	
26	Pineapple	Allergy II	<0.15	0	
27	Plum	Allergy II	<0.15	0	
28	Watermelon	Allergy II	<0.15	0	
37	Peanut	Allergy I	1.46	1	

Grain*		Responses: 2			
No	Name	Panel	IU/mL	Class	
48	Wheat	Allergy I	<0.15	0	
49	Corn	Allergy I	1.18	1	
50	Rice	Allergy I	<0.15	0	
51	Gluten	Allergy II	<0.15	0	
52	Barley	Allergy II	<0.15	0	
53	Oat	Allergy II	0.48	1	
54	Buckwheat	Allergy II	<0.15	0	
55	Millet	Allergy II	<0.15	0	
56	Lentil	Allergy II	<0.15	0	
57	Sweet chestnut	Allergy II	<0.15	0	
58	Linseed (Flax seed)	Allergy II	<0.15	0	

Shellfish* & Fish*		Responses: 0			
No	Name	Panel	IU/mL	Class	
59	Crab / Shrimp	Allergy I	<0.15	0	
64	Blue mussel / Clam	Allergy II	<0.15	0	
60	Codfish	Allergy I	<0.15	0	
61	Tuna	Allergy I	<0.15	0	
62	Salmon	Allergy I	<0.15	0	
63	Mackerel	Allergy I	<0.15	0	
65	Trout	Allergy II	<0.15	0	
66	Herring	Allergy II	<0.15	0	
67	Sardine	Allergy II	<0.15	0	
68	Anchovy	Allergy II	<0.15	0	
69	Sea bass	Allergy II	<0.15	0	

\*Only groups marked with an asterisk are included in the responsive group classification on the first page.



# Allergy Page 2 - Environmental

PATIENT NAME: Tori Alvarez

MRN: 1102269

VETERINARIAN:

Class	Response	IU/mL	NT = Not Tested	Responses	TOTAL ALLERGEN RESPONSES
0	None	≤ 0.34		Class 1: 18	18
1	Low	0.35 - 3.49		Class 2: 0	
2	Medium	3.5 - 49.99		Class 3: 0	
3	High	≥ 50			

## ENVIRONMENTAL ALLERGENS

Animal		Responses: 1			
No	Name	Panel	IU/mL	Class	
70	Cat Epithelium/Dander	Allergy I	0.76	1	
71	Wool, Sheep	Allergy I	<0.15	0	
72	Feather Mix	Allergy I	<0.15	0	
73	Cattle Epithelium	Allergy II	<0.15	0	

Grass*		Responses: 0			
No	Name	Panel	IU/mL	Class	
95	Bermuda Grass	Allergy I	<0.15	0	
96	Orchard/Timothy Grass	Allergy I	<0.15	0	
97	Ryegrass	Allergy I	<0.15	0	
98	Cultivated rye	Allergy I	<0.15	0	
99	Sweet vernal grass	Allergy II	<0.15	0	
100	Common reed grass	Allergy II	<0.15	0	
101	Bent grass	Allergy II	<0.15	0	

Insect* & Mite*		Responses: 2			
No	Name	Panel	IU/mL	Class	
74	Flea	Allergy I	<0.15	0	
75	Cockroach	Allergy I	<0.15	0	
76	Bee venom	Allergy II	<0.15	0	
77	Fire ant	Allergy II	<0.15	0	
78	Mosquito	Allergy II	<0.15	0	
79	Silkworm pupa	Allergy II	<0.15	0	
80	American dust mite <sup>1</sup>	Allergy I	<0.15	0	
81	European dust mite <sup>2</sup>	Allergy I	0.5	1	
82	Flour mite <sup>3</sup>	Allergy I	<0.15	0	
83	Cheese/mold mite <sup>4</sup>	Allergy I	0.6	1	
84	Storage mite <sup>5</sup>	Allergy II	<0.15	0	
85	Tropical dust mite <sup>6</sup>	Allergy II	<0.15	0	

Tree*		Responses: 3			
No	Name	Panel	IU/mL	Class	
102	Alder/Birch	Allergy I	0.7	1	
103	Hazel	Allergy I	<0.15	0	
104	Maple leaf sycamore	Allergy I	0.5	1	
105	Willow/Cottonwood	Allergy I	<0.15	0	
106	Oak	Allergy I	0.48	1	
107	White Pine	Allergy I	<0.15	0	
108	Acacia	Allergy I	<0.15	0	
109	White Ash	Allergy I	<0.15	0	
110	Japanese cedar	Allergy II	<0.15	0	

Mold*		Responses: 0			
No	Name	Panel	IU/mL	Class	
86	Penicillium notatum	Allergy I	<0.15	0	
87	C. herbarum	Allergy I	<0.15	0	
88	Aspergillus fumigatus	Allergy I	<0.15	0	
89	Candida albicans	Allergy I	<0.15	0	
90	Alternaria alternata	Allergy I	<0.15	0	
91	M. pachydermatis	Allergy I	<0.15	0	

Weed*		Responses: 1			
No	Name	Panel	IU/mL	Class	
111	Common ragweed	Allergy I	<0.15	0	
112	Plantain	Allergy I	<0.15	0	
113	Mugwort	Allergy I	0.43	1	
114	Sheep's sorrel	Allergy I	<0.15	0	
115	Japanese hop	Allergy II	<0.15	0	
116	Ox-eye daisy	Allergy II	<0.15	0	
117	Dandelion	Allergy II	<0.15	0	
118	Russian thistle	Allergy II	<0.15	0	
119	Goldenrod	Allergy II	<0.15	0	
120	Common pigweed	Allergy II	<0.15	0	

Other		Responses: 0			
No	Name	Panel	IU/mL	Class	
92	House dust	Allergy II	<0.15	0	
93	CCD	Allergy II	<0.15	0	
94	Hevea latex	Allergy II	<0.15	0	

### Additional Information

- 1 *Dermatophagoides pteronyssinus*
- 2 *Dermatophagoides farinae*
- 3 *Acarus siro*
- 4 *Tyrophagus putrescentiae*
- 5 *Glycyphagus domesticus*
- 6 *Blomia tropicalis*

\* Only groups indicated with an asterisk are included in the responsive group classification on the first page.

# Vitamin D Report

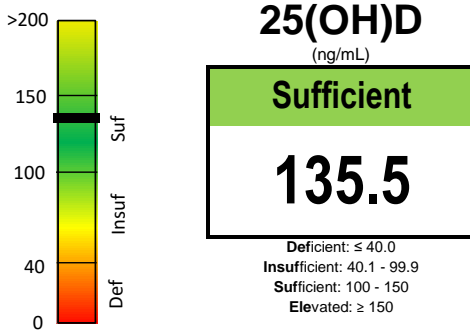


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**Dose at time of draw:**

0 IU/day

**Change dose by**

0 IU/day



## New Recommended Dose Range

**Low End Sufficiency**  
(~100 ng/mL)

**High End Sufficiency**  
(~130 ng/mL)

**Not Required**

**Not Required**

For most patients without underlying conditions, or taking corticosteroids

For patients that warrant a higher VitD level and/or those on corticosteroids.

### Patient History

ID	Date	Result ng/mL	Known Dose iu/day

### Interpretive Comments - need consult? email consult@vdilab.com

Reference intervals for patients under 1 year of age have not been evaluated, however your patient has been found to be within adult intervals. Maintain diet.

#### If any of the following occur, wait 2 months from the date of change, then retest:

Major Diet Change  
Change in Health Status (eg PLE)  
Change of Vitamin D supplement or daily treats

Supplementation is stopped for longer than 4 weeks  
Patient is put on Corticosteroids  
Patient is put on NSAIDS

### Supplementation Guide

**Total Dose Recommended:**

**Not Required**

**Not Required**

\*Choose only one product for supplementation

PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Low End Dose	High End Dose
<b>RxD3</b> <i>Rx Vitamins</i>	100 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/>
<b>RxD3 Forte</b> <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/>

# B12 (Cobalamin) Report

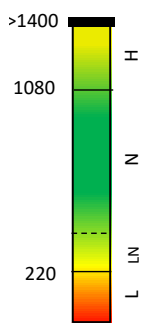


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## Cobalamin (pg/mL)

**High**  
**1466.6**

Low (L): <220  
Low Normal (LN): 220 - 400  
Normal (N): 220 - 1080  
High (H): ≥1080

B12 Dose at time of draw:

**0 mcg/day**

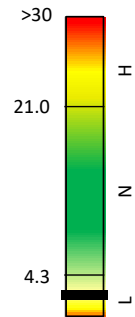
Increase B12 dose by:

**0 mcg/day**



## New Recommended B12 Dose

Fasted Sample?	Fasted
<b>0 mcg/day</b>	
B12 dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.	



## Folate (ng/mL)

**Low**  
**<2.4**

Low (L): <4.3  
Normal (N): 4.3 - 21.0  
High (H): > 21.0

### Patient History

ID	Date	B12 pg/mL	Folate ng/mL	Known B12 Dose mcg/day

### Folate vs Cobalamin Plot

Folate	High	SIBO Excess Dietary Folate		Excess Supplementation
	Normal	Low Dietary B12 CP / EPI / IBD / LSA Distal SI Damage	Normal	Excess Supplementation Cholangitis
	Low	Small Intestinal Damage CP / EPI / IBD / LSA	Proximal SI Damage Dysbiosis Antibiotics	Proximal SI Damage Antibiotics / LSA / Cholangitis
		Low		High

### Cobalamin

chart assumes unsupplemented patient

need consult? email [consult@vdiilab.com](mailto:consult@vdiilab.com)

### Comments

Patient has high B12 levels and low folate. High B12 is usually associated with dietary intake or excess supplementation. Low Folate and High B12 is sometimes seen with proximal SI damage or antibiotic use.

## Total B12 Dose Recommended:

**0 mcg/day**

PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Drops Dose	mL Dose
<b>RxB12</b> <i>Rx Vitamins</i>	<b>250 mcg/mL</b> 6.5 mcg/drop	<b>Liquid Drops</b> <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/>
<b>RxB12 Forte</b> <i>Rx Vitamins</i>	<b>1000 mcg/mL</b> 33 mcg/drop	<b>Liquid Drops</b> <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/>

\*Choose only one product for supplementation

# Magnesium Report

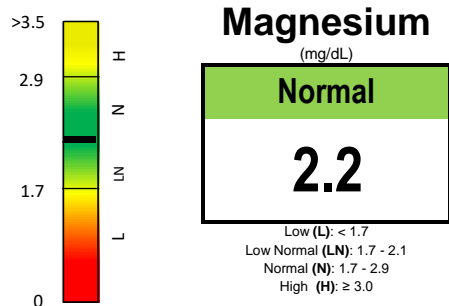


VDI Lab Services  
4685 Runway St. Ste K Simi Valley, CA 93063  
ph: 805-577-6742 fax: 805-426-8115

**PATIENT NAME:** Tori Alvarez  
**SPECIMEN ID:** 177193  
**SPECIES:** Canine  
**GENDER:** Female  
**AGE:** 0.8  
**WEIGHT:** 3 lb  
**BREED:** Pomeranian

**MRN:** 1102269  
**DRAW DATE:** 4-Mar-23  
**RECEIVED DATE:** 7-Mar-23  
**REPORT DATE:** 8-Mar-23  
**SAMPLE TYPE:** Frozen Serum

**VETERINARIAN:**  
**FACILITY:**  
  
**PH:**  
**FAX:**



**Dose at time of draw:** 0 mg/day

**Increase Dose By:** 0 mg/day

**New Recommended Dose**

MagRatio	Not Available
<b>0 mg/day</b>	

Magnesium dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.

**Patient History**

ID	Date	Result m g/dL	Known Dose mg/day

**Interpretive Comments - need consult? email consult@vdlab.com** 314

Reference intervals for patients under 1 year of age have not been evaluated, however your patient has been found to be within adult intervals. Maintain diet.

## Supplementation Guide

<b>Total Dose Recommended:</b>		<b>0 mg/day</b>		
PRODUCT NAME	PRODUCT STRENGTH	PUMP VOLUME	PRODUCT FORMAT	Dose
Magnesium Lotion for Pets <i>Magnum Solace</i>	50 mg/mL	0.23 mL/pump 11.5 mg/pump	Topical Lotion	<input type="checkbox"/>
Other				<input type="checkbox"/>

Additional Reviewer Comments - need consult? email consult@vdlab.com

**Retest NO SOONER THAN:**