

# 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:** Zuko Holden  
**SPECIMEN ID:** 177156  
**SPECIES:** Canine  
**GENDER:** Male  
**AGE:** 3.0  
**WEIGHT:** 57 lb  
**BREED:** American Pit Bull

**MRN:** 1101809  
**DRAW DATE:** 22-Feb-23  
**RECEIVED DATE:** 24-Feb-23  
**REPORT DATE:** 2-Mar-23  
**SAMPLE TYPE:** Frozen Serum

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

## Gastrointestinal Disease - Dashboard

### Related Tests

<p><b>B12</b></p> <p>Normal</p> <p><b>846.8</b></p> <p>Normal: 220-1080 pg/mL</p>	<p><b>Folate</b></p> <p>Normal</p> <p><b>6.4</b></p> <p>Normal: 4.3 - 21.0 ng/mL</p>	<p><b>Vitamin D</b></p> <p>Insufficient</p> <p><b>93.6</b></p> <p>Sufficiency: 100-150 ng/mL</p>	<p><b>Magnesium</b></p> <p>Normal</p> <p><b>2.8</b></p> <p>Normal: 1.7-2.9 mg/dL</p>	<p><b>Allergies</b></p> <p>Present</p> <p>See Allergy Report</p>	
<p><b>CRP</b></p> <p>Moderate</p> <p><b>20.7</b></p> <p>Normal: ≤ 4.0</p>	<p><b>TK1</b></p> <p>High</p> <p><b>8.8</b></p> <p>Normal: &lt;3.0 U/L</p>	<p><b>Neoplasia Index</b></p> <p>Low Positive</p> <p><b>5.7</b></p> <p>Negative: ≤ 5.2</p>	<p><b>cPL</b></p> <p>Normal</p> <p><b>64.3</b></p> <p>Normal: &lt;200 ng/mL</p>		<p><b>Addison's</b></p> <p><b>Cortisol</b></p> <p>Not Tested</p> <p>Normal: 2 - 6 ug/dL</p>
<p><b>Total Protein</b></p> <p>Normal</p> <p><b>6.9</b></p> <p>Range: 5.8 - 8.8 g/dL</p>	<p><b>Albumin</b></p> <p>Normal</p> <p><b>2.9</b></p> <p>Range: 2.9 - 4.3 g/dL</p>	<p><b>Globulin</b></p> <p>Normal</p> <p><b>4.0</b></p> <p>Range: 2.7 - 4.6 g/dL</p>	<p><b>A/G Ratio</b></p> <p>Normal</p> <p><b>0.7</b></p> <p>Range: 0.7 - 1.5</p>		<p><b>Cholangitis</b></p> <p><b>ALT ALP</b></p> <p>Not Tested</p> <p>ALT range: 10-110 U/L ALP range: 9-160 U/L</p>

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

#### Chronic Enteropathy 3510

LSA	Low Confidence
<p><b>LSA clinical score: 2 out of 4</b></p> <p><i>Wt Loss, ✓Vomiting, ✓Diarrhea, Inappetance</i></p>	
<p>Pattern is consistent with LSA. Patient has a positive Neoplasia Index and should be evaluated. An ultrasound is recommended. See report for details.</p>	<p><b>Confidence Factors</b></p> <p>low pos NI high TK1 pos inflam</p>

#### Pancreatitis 1412

Not Detected	No Action
<p><b>Pancreatitis clinical score: 2 out of 4</b></p> <p><i>Wt Loss, Lethargy, ✓Vomiting, ✓Abd pain</i></p>	
<p>Negative pancreatic lipase and other parameters are not supportive of pancreatitis.</p>	

#### Protein Losing Enteropathy 2111

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

#### Essential Vitamins 2111

Deficiencies Detected	Suppl Warranted
<p>Patient has been found to have deficiencies with recommended supplementation on attached report.</p>	

#### Reviewer Comments - need consult? email consult@vdiilab.com

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**FAX:**

**REPORT DATE:** 2-Mar-2023

Relevant Context (provided on TRF)

Corticosteroids       Antibiotics  
 NSAIDs                 Suspected Mass  
 Yes GI Signs             Enlarged Node

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

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

Neoplasia Index®

cGI.LSA

**Low Positive**  
**5.7**  
Index



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

Interpretive Comments

**Results are consistent with LSA**

Patient has a positive Neoplasia Index indicative of LSA. This profile of TK1/ CRP/ B12 is consistent with GI LSA - patient should be evaluated. An ultrasound is recommended.

**TK1**

**High**  
**8.8**  
U/L



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

Interpretive Comments

High levels of TK1 with moderate inflammation can be found in GI LSA. If the patient is on corticosteroids, both TK1 and CRP may be higher as these medications suppress the inflammatory and proliferative response.

**CRP**

**Moderate**  
**20.7**  
mg/L



Normal: ≤ 3.9  
Mild Inflammation: 4 - 9.9  
Moderate Inflammation: 10 - 39.9  
High Inflammation: ≥ 40

**Cobalamin**

**Normal**  
**846.8**  
pgm/L

**Folate**

**Normal**  
**6.4**  
ng/mL

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 normal B12 and Folate levels. Maintain current diet and supplementation and retest in 1 year unless health or diet changes occur.

**Contextual Comments (if needed)**

profile code 32340      LSA

\* 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
Corn	3	Grain	Soy bean	1	Veg
Rice	3	Grain	Egg white	1	Egg
Pea	3	Veg	Gluten	1	Grain
Carrot	3	Veg	Oat	1	Grain
Potato	3	Veg	Buckwheat	1	Grain
Sweet Potato	3	Veg	Sweet chestnut	1	Grain
Tomato	3	Fruit	Linseed (Flax seed)	1	Grain
Apple	3	Fruit	Orange	1	Fruit
Peanut	3	Nut	Strawberry	1	Fruit
Wheat	2	Grain	Kiwi	1	Fruit
Pumpkin	2	Veg	Melon	1	Fruit
Peach	2	Fruit	Pineapple	1	Fruit
Barley	2	Grain	Paprika	1	Veg
Blueberry	2	Fruit	Spinach	1	Veg
Pear	2	Fruit			
Parsely	2	Veg			
Cabbage	2	Veg			
Cucumber	2	Veg			
Radish	2	Veg			

## Environmental Allergens

Allergen	Class	Group	Allergen	Class	Group
Alder/Birch	3	Tree	Russian thistle	2	Weed
Maple leaf sycamore	3	Tree	Common pigweed	2	Weed
White Pine	3	Tree	American dust mite	1	Mite
Acacia	3	Tree	European dust mite	1	Mite
White Ash	3	Tree	Flour mite	1	Mite
Common ragweed	3	Weed	Cheese/mold mite	1	Mite
Plantain	3	Weed	Hazel	1	Tree
Mugwort	3	Weed	Flea	1	Insect
Sheep's sorrel	3	Weed	House dust	1	Other
Bermuda Grass	3	Grass	Dandelion	1	Weed
Orchard/Timothy Grass	3	Grass	Goldenrod	1	Weed
Ryegrass	3	Grass	Hevea latex	1	Other
Cultivated rye	3	Grass	Bee venom	1	Insect
Willow/Cottonwood	2	Tree			
Oak	2	Tree			
CCD	2	Other			
Sweet vernal grass	2	Grass			
Common reed grass	2	Grass			
Bent grass	2	Grass			

Total Class 1

**25**

Total Class 2

**18**

Total Class 3

**22**

### Responsive Groups

Grain Mite  
 Grass Tree  
 Weed

### Inflammation

**Moderate**

**20.7**

Normal: ≤ 4.0

### Vitamin D

**Insufficient**

**93.6**

Sufficiency:  
 100-150 ng/mL

### 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/recurring yeast infections
- Corticosteroid-responsive pruritis
- Mostly indoor lifestyle
- Nonaffected dorsolumbar area
- Pruritis without skin lesions at onset

**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



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**BREED:** American Pit Bull  
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**COLLECTION DATE:** 22-Feb-23  
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**SAMPLE TYPE:** Serum

**VETERINARIAN:**

Class	Response	IU/mL	Responses	TOTAL ALLERGEN RESPONSES
0	None	≤ 0.34	Class 1: 25	65
1	Low	0.35 - 3.49	Class 2: 18	
2	Medium	3.5 - 49.99	Class 3: 22	
3	High	≥ 50		

NT = Not Tested

See page 2 for more info

## FOOD ALLERGENS

Meat			Responses: 0		
No	Name	Panel	IU/mL	Class	
1	Pork	Allergy I	<0.15	0	
2	Beef	Allergy I	<0.15	0	
3	Duck	Allergy I	<0.15	0	
4	Chicken	Allergy I	<0.15	0	
5	Lamb	Allergy I	<0.15	0	
6	Turkey	Allergy I	<0.15	0	
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	1.32	1	
45	Egg yolk	Allergy I	<0.15	0	

Vegetable, Fruit, Nut			Responses: 23		
No	Name	Panel	IU/mL	Class	
9	Pea	Allergy I	>100	3	
10	Soy bean	Allergy I	2.82	1	
11	Carrot	Allergy I	>100	3	
12	Potato	Allergy I	>100	3	
13	Sweet Potato	Allergy I	>100	3	
14	Pumpkin	Allergy I	4.78	2	
29	Parsely	Allergy II	17.91	2	
30	Cabbage	Allergy II	15.77	2	
31	Cucumber	Allergy II	12.36	2	
32	Broccoli	Allergy II	<0.15	0	
33	Cauliflower	Allergy II	<0.15	0	
34	Radish	Allergy II	8.24	2	
35	Paprika	Allergy II	2	1	
36	Spinach	Allergy II	1.26	1	
15	Tomato	Allergy I	>100	3	
16	Apple	Allergy I	>100	3	
17	Orange	Allergy II	1.96	1	
18	Strawberry	Allergy II	1.48	1	
19	Blueberry	Allergy II	10.47	2	
20	Kiwi	Allergy II	1.48	1	
21	Melon	Allergy II	2.48	1	
22	Mango	Allergy II	<0.15	0	
23	Banana	Allergy II	<0.15	0	
24	Peach	Allergy II	6.8	2	
25	Pear	Allergy II	8.24	2	
26	Pineapple	Allergy II	2.86	1	
27	Plum	Allergy II	<0.15	0	
28	Watermelon	Allergy II	<0.15	0	
37	Peanut	Allergy I	>100	3	

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	

Grain*			Responses: 9		
No	Name	Panel	IU/mL	Class	
48	Wheat	Allergy I	4.74	2	
49	Corn	Allergy I	>100	3	
50	Rice	Allergy I	>100	3	
51	Gluten	Allergy II	1.34	1	
52	Barley	Allergy II	4.24	2	
53	Oat	Allergy II	0.7	1	
54	Buckwheat	Allergy II	2.86	1	
55	Millet	Allergy II	<0.15	0	
56	Lentil	Allergy II	<0.15	0	
57	Sweet chestnut	Allergy II	1.48	1	
58	Linseed (Flax seed)	Allergy II	3.24	1	

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



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Class	Response	IU/mL	Responses	TOTAL ALLERGEN RESPONSES
0	None	≤ 0.34	Class 1: 25	<b>65</b>
1	Low	0.35 - 3.49	Class 2: 18	
2	Medium	3.5 - 49.99	Class 3: 22	
3	High	≥ 50		

NT = Not Tested

## ENVIRONMENTAL ALLERGENS

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

Insect* & Mite*			Responses: 6	
No	Name	Panel	IU/mL	Class
74	Flea	Allergy I	0.7	1
75	Cockroach	Allergy I	<0.15	0
76	Bee venom	Allergy II	2.48	1
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	0.58	1
81	European dust mite <sup>2</sup>	Allergy I	2.52	1
82	Flour mite <sup>3</sup>	Allergy I	2.32	1
83	Cheese/mold mite <sup>4</sup>	Allergy I	2.18	1
84	Storage mite <sup>5</sup>	Allergy II	<0.15	0
85	Tropical dust mite <sup>6</sup>	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

Other			Responses: 3	
No	Name	Panel	IU/mL	Class
92	House dust	Allergy II	1.04	1
93	CCD	Allergy II	5.14	2
94	Hevea latex	Allergy II	1.64	1

Grass*			Responses: 7	
No	Name	Panel	IU/mL	Class
95	Bermuda Grass	Allergy I	>100	3
96	Orchard/Timothy Grass	Allergy I	>100	3
97	Ryegrass	Allergy I	>100	3
98	Cultivated rye	Allergy I	>100	3
99	Sweet vernal grass	Allergy II	8.24	2
100	Common reed grass	Allergy II	5.14	2
101	Bent grass	Allergy II	3.70	2

Tree*			Responses: 8	
No	Name	Panel	IU/mL	Class
102	Alder/Birch	Allergy I	91.17	3
103	Hazel	Allergy I	2.32	1
104	Maple leaf sycamore	Allergy I	>100	3
105	Willow/Cottonwood	Allergy I	12.3	2
106	Oak	Allergy I	28.53	2
107	White Pine	Allergy I	>100	3
108	Acacia	Allergy I	>100	3
109	White Ash	Allergy I	>100	3
110	Japanese cedar	Allergy II	<0.15	0

Weed*			Responses: 8	
No	Name	Panel	IU/mL	Class
111	Common ragweed	Allergy I	>100	3
112	Plantain	Allergy I	>100	3
113	Mugwort	Allergy I	>100	3
114	Sheep's sorrel	Allergy I	>100	3
115	Japanese hop	Allergy II	<0.15	0
116	Ox-eye daisy	Allergy II	<0.15	0
117	Dandelion	Allergy II	0.7	1
118	Russian thistle	Allergy II	3.7	2
119	Goldenrod	Allergy II	0.70	1
120	Common pigweed	Allergy II	6.56	2

### Additional Information

- |   |                                   |
|---|-----------------------------------|
| 1 <i>Dermatophagoides pteronyssinus</i> | 4 <i>Tyrophagus putrescentiae</i> |
| 2 <i>Dermatophagoides farinae</i>       | 5 <i>Glycyphagus domesticus</i>   |
| 3 <i>Acarus siro</i>                    | 6 <i>Blomia tropicalis</i>        |

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# Vitamin D Report



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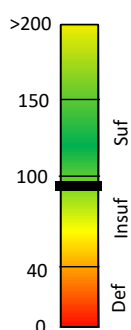
**PH:**

**WEIGHT:** 57 lb

**SAMPLE TYPE:** Frozen Serum

**FAX:**

**BREED:** American Pit Bull



**25(OH)D**  
(ng/mL)

**Insufficient**

**93.6**

Deficient:  $\leq 40.0$   
Insufficient: 40.1 - 99.9  
Sufficient: 100 - 150  
Elevated:  $\geq 150$

**Dose at time of draw:**

**0 IU/day**

**Increase dose by:**

**200 IU/day**



**New Recommended Dose Range**

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

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

**200 IU/day**

**1100 IU/day**

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@vdlab.com**

Your patient is found to be insufficient. Insufficiency increases risk of developing other serious diseases. Supplement with D3 per recommendations and retest in 8-10 weeks or 4 months for obese patients.

**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:**

**200 IU/day**

**1100 IU/day**

\*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"/> <b>2 drops/day</b>	<input type="checkbox"/> <b>11 drops/day</b>
<b>RxD3 Forte</b> <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/>	<input type="checkbox"/> <b>2 drops/day</b>

**Retest NO SOONER THAN:**

**May 11, 2023**

# B12 (Cobalamin) Report

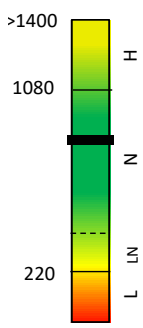


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## Cobalamin (pg/mL)

**Normal**  
**846.8**

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

**B12 Dose at time of draw:**

**0 mcg/day**

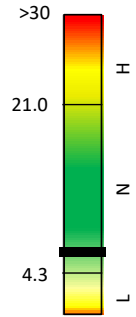
**Increase B12 dose by:**

**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)

**Normal**  
**6.4**

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	Normal	Excess Supplementation
	Low	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

**Cobalamin**  
chart assumes unsupplemented patient

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

### Comments

Patient has normal B12 and Folate levels. Maintain current diet and supplementation and retest in 1 year unless health or diet changes occur.

## 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

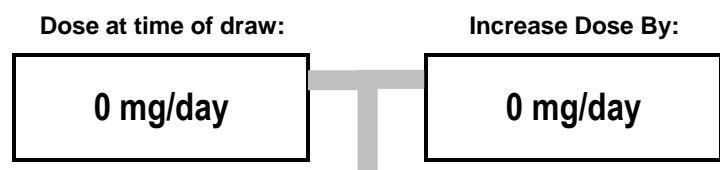
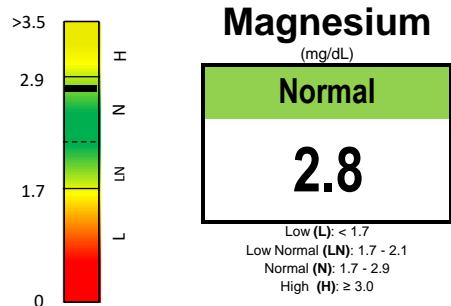


VDI Lab Services  
4685 Runway St. Ste K Simi Valley, CA 93063  
ph: 805-577-6742 fax: 805-426-8115

**PATIENT NAME:** Zuko Holden  
**SPECIMEN ID:** 177156  
**SPECIES:** Canine  
**GENDER:** Male  
**AGE:** 3.0  
**WEIGHT:** 57 lb  
**BREED:** American Pit Bull

**MRN:** 1101809  
**DRAW DATE:** 22-Feb-23  
**RECEIVED DATE:** 24-Feb-23  
**REPORT DATE:** 2-Mar-23  
**SAMPLE TYPE:** Frozen Serum

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



**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

Patient has Normal Magnesium levels. Maintain current diet and retest in 1 year unless diet or health changes occur.

## 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:**