

# 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:** River Caceres  
**SPECIMEN ID:** 176293  
**SPECIES:** Feline  
**GENDER:** Male Neutered  
**AGE:** 1.5  
**WEIGHT:** 15 lb  
**BREED:** DMH

**MRN:** 1102101  
**DRAW DATE:** 1-Mar-23  
**RECEIVED DATE:** 3-Mar-23  
**REPORT DATE:** 10-Mar-23  
**SAMPLE TYPE:** Frozen Serum

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

## Gastrointestinal Disease - Dashboard

### Related Tests

<p><b>B12</b></p> <p>Low Normal</p> <p><b>396.6</b></p> <p>Normal: 268-1478 pg/mL</p>	<p><b>Folate</b></p> <p>Normal</p> <p><b>17.4</b></p> <p>Normal: 7.3 - 21.6 ng/mL</p>	<p><b>Vitamin D</b></p> <p>Insufficient</p> <p><b>71.6</b></p> <p>Sufficiency: 100-150 ng/mL</p>	<p><b>Magnesium</b></p> <p>Normal</p> <p><b>2.4</b></p> <p>Normal: 2.0-2.7 mg/dL</p>	<p><b>Allergies</b></p> <p>Present</p> <p><b>See Allergy Report</b></p>	
<p><b>HPT</b></p> <p>Mild</p> <p><b>107.0</b></p> <p>Normal: 25 - 64.9</p>	<p><b>TK1</b></p> <p>High</p> <p><b>9.8</b></p> <p>Normal: &lt;3.0 U/L</p>	<p><b>Neoplasia Index</b></p> <p>Negative</p> <p><b>3.8</b></p> <p>Negative: ≤ 5.2</p>	<p><b>fPL</b></p> <p>Normal</p> <p><b>1.1</b></p> <p>Normal: ≤ 3.5</p>		<p><b>Addison's</b></p> <p><b>Cortisol</b></p> <p>Not Tested</p> <p>Normal: 1 - 5 ug/dL</p>
<p><b>Total Protein</b></p> <p>Normal</p> <p><b>7.8</b></p> <p>Range: 6.3 - 8.8 g/dL</p>	<p><b>Albumin</b></p> <p>Normal</p> <p><b>3.1</b></p> <p>Range: 2.5 - 3.9 g/dL</p>	<p><b>Globulin</b></p> <p>Normal</p> <p><b>4.7</b></p> <p>Range: 2.9 - 5.9 g/dL</p>	<p><b>A/G Ratio</b></p> <p>Normal</p> <p><b>0.7</b></p> <p>Range: 0.4 - 1.5</p>		

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

#### Chronic Enteropathy 2220

<b>IBD</b>	Moderate 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 IBD. An ultrasound is recommended.</p>	

#### Pancreatitis 1421

<b>Not Detected</b>	No Action
<p><b>Pancreatitis clinical score: 1 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

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

#### Essential Vitamins 2121

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

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

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**REPORT DATE: 10-Mar-2023**

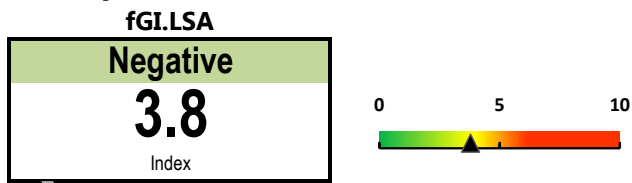
**Relevant Context (provided on TRF)**

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

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

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

**Neoplasia Index<sup>®</sup>** corrected for corticosteroid use

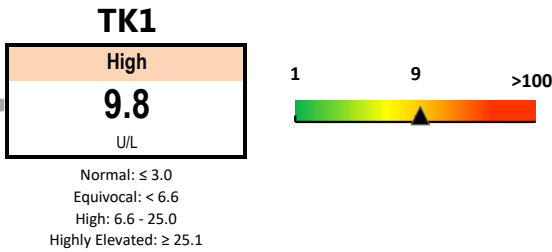


Negative: ≤ 5.2  
 Equivocal: 5.3  
 Positive: 5.4 - 8.1  
 High Positive: ≥ 8.2

**Interpretive Comments**

**Results are INCONSISTENT with GI LSA**

Patient has a negative Neoplasia Index index and inconsistent with GI lymphoma. This profile of TK1/ HPT/ B12, adjusted for corticosteroid use, is consistent with IBD\*. An ultrasound is recommended.

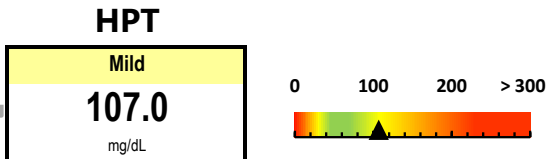


Normal: ≤ 3.0  
 Equivocal: < 6.6  
 High: 6.6 - 25.0  
 Highly Elevated: ≥ 25.1

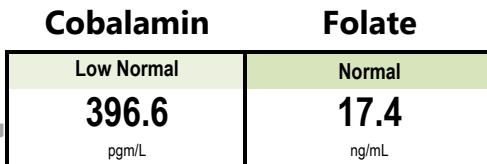
**Interpretive Comments** \*comments adjusted for corticosteroid use

**Results are consistent with: IBD**

High TK1 with a mild inflammatory response is commonly found in IBD. Corticosteroid use will suppress the inflammatory response, therefore the inflammation level may actually be higher.



Decreased: < 25  
 Normal: 25 - 64.9  
 Mild Inflamm (m): 65 - 225  
 High Inflamm (H): ≥ 225.1



Low: <268  
 Low Normal: 268 - 400  
 Normal: 268 - 1478  
 High: ≥1479

Low: <7.3  
 Normal: 7.3 - 21.6  
 High: > 21.6

**Interpretive Comments**

Patient has low normal B12 levels with normal Folate. Supplement as indicated and retest in 8-10 weeks.

**Contextual Comments (if needed)**

profile code 12232      IBD      4.4

\* The classification of LSA is based upon test result profiling and should not be considered definitive. It is most reliable in the untreated cat. 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
Sweet Potato	1	Veg			
Oat	1	Grain			
Linseed (Flax seed)	1	Grain			
Blueberry	1	Fruit			
Mango	1	Fruit			

## Environmental Allergens

Allergen	Class	Group	Allergen	Class	Group
Russian thistle	1	Weed			
Goldenrod	1	Weed			
Common pigweed	1	Weed			
Hevea latex	1	Other			
Bee venom	1	Insect			

Total Class 1

**10**

Total Class 2

**0**

Total Class 3

**0**

**Responsive Groups**

Weed

**Inflammation**

**Mild**  
**107.0**

Normal: 25 - 64.9

**Vitamin D**

**Insufficient**  
**71.6**

Sufficiency:  
 100-150 ng/mL

**Clinical Signs Associated with FASS**

5+ is consistent with FASS

**Criteria Not Provided**

- 2+ body sites affected
- Symmetrical alopecia
- Lesions on the lips
- Erosions or ulcers on the chin/neck
- Absence of lesion on the rump
- Absence of nonsym. alopecia on rump
- Absence of nodules or tumors
- Presence of at least two of four:
  - Symmetrical Alopecia
  - Miliary dermatitis
  - Eosinophilic dermatitis
  - Head & Neck erosions/ulcers

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

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

The most common FASS associated allergens are pollens (grass, weed and/or tree), insects, mites, mold, feathers, and grain mill dust.

IgE has a relatively short half-life therefore class 1 allergens may represent weak allergic responses unrelated to FASS 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@vdi lab.com**



# Allergy Page 1 - Food

**PATIENT NAME:** River Caceres

**SPECIMEN ID #:** 176293

**SPECIES / SEX:** Feline / MN

**BREED:** DMH

**AGE:** 1.5

**WEIGHT:** 15 lb

**MRN:** 1102101

**COLLECTION DATE:** 1-Mar-23

**RECEIVED DATE:** 3-Mar-23

**REPORT DATE:** 10-Mar-23

**SAMPLE TYPE:** Serum

**VETERINARIAN:**

**FACILITY:**

Class	Response	IU/mL		Responses	TOTAL ALLERGEN RESPONSES
0	None	≤ 0.34	NT = Not Tested	Class 1: 10	10
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: 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: 0		
No	Name	Panel	IU/mL	Class	
44	Egg white	Allergy I	<0.15	0	
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: 3		
No	Name	Panel	IU/mL	Class	
9	Pea	Allergy I	<0.15	0	
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	1.24	1	
14	Pumpkin	Allergy I	<0.15	0	
29	Parsely	Allergy II	<0.15	0	
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	0.38	1	
20	Kiwi	Allergy II	<0.15	0	
21	Melon	Allergy II	<0.15	0	
22	Mango	Allergy II	0.7	1	
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	<0.15	0	

Grain*			Responses: 2		
No	Name	Panel	IU/mL	Class	
48	Wheat	Allergy I	<0.15	0	
49	Corn	Allergy I	<0.15	0	
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	0.55	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	0.7	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

PATIENT NAME: River Caceres

MRN: 1102101

VETERINARIAN:

Class	Response	IU/mL	NT = Not Tested	Responses	TOTAL ALLERGEN RESPONSES
0	None	≤ 0.34		Class 1: 10	<b>10</b>
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: 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	

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: 1			
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	0.7	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	<0.15	0	
81	European dust mite <sup>2</sup>	Allergy I	<0.15	0	
82	Flour mite <sup>3</sup>	Allergy I	<0.15	0	
83	Cheese/mold mite <sup>4</sup>	Allergy I	<0.15	0	
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: 0			
No	Name	Panel	IU/mL	Class	
102	Alder/Birch	Allergy I	<0.15	0	
103	Hazel	Allergy I	<0.15	0	
104	Maple leaf sycamore	Allergy I	<0.15	0	
105	Willow/Cottonwood	Allergy I	<0.15	0	
106	Oak	Allergy I	<0.15	0	
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: 3			
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	<0.15	0	
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	1.24	1	
119	Goldenrod	Allergy II	0.38	1	
120	Common pigweed	Allergy II	1.24	1	

Other		Responses: 1			
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	1.24	1	

### Additional Information

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

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# Vitamin D Report



VDI Lab Services  
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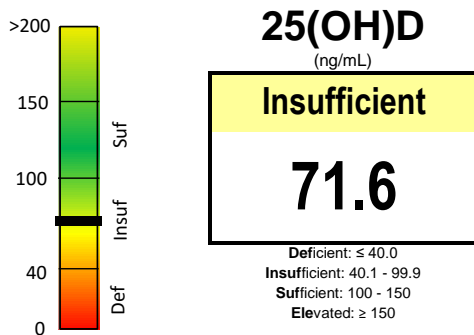
**PH:**

**WEIGHT:** 15 lb

**SAMPLE TYPE:** Frozen Serum

**FAX:**

**BREED:** DMH



**Dose at time of draw:**

**0 IU/day**

**Increase dose by:**

**300 IU/day**



## New Recommended Dose Range

Low End Sufficiency (~100 ng/mL)	High End Sufficiency (~130 ng/mL)
<b>300 IU/day</b>	<b>400 IU/day</b>
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](mailto: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:		300 IU/day ↔ 400 IU/day		
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"/> 3 drops/day	<input type="checkbox"/> 4 drops/day
<b>RxD3 Forte</b> <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 1 drop/day	<input type="checkbox"/> 1 drop/day

\*Choose only one product for supplementation

**Retest NO SOONER THAN: May 19, 2023**

**B12 (Cobalamin) Report**

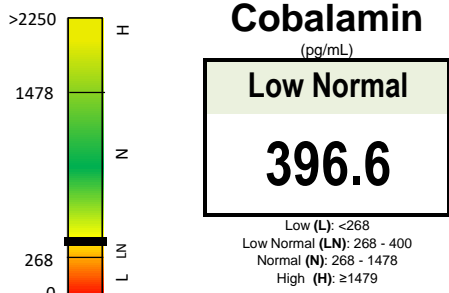


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In unfasted patients, actual B12 values may be lower, which may impact dose recommendation.

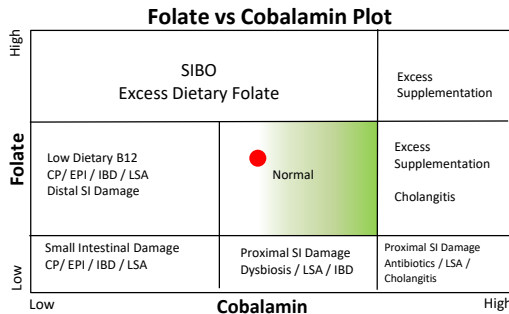
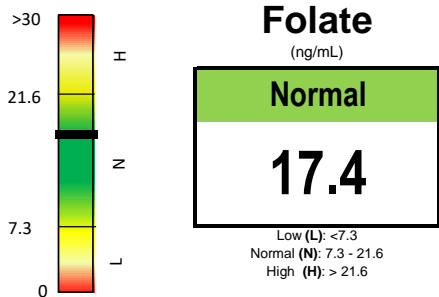
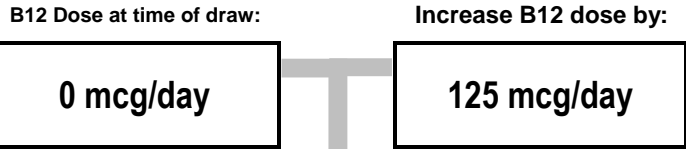


chart assumes unsupplemented patient



**New Recommended B12 Dose**

Fasted Sample?	Not Fasted
<b>125 mcg/day</b>	
B12 dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.	

**Patient History**

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

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

**Comments**

Patient has low normal B12 levels with normal Folate. Supplement as indicated and retest in 8-10 weeks.

**Total B12 Dose Recommended:**

**125 mcg/day**

PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Drops Dose	mL Dose
<b>RxB12</b> <i>Rx Vitamins</i>	250 mcg/mL 6.5 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> use mL dose	<input type="checkbox"/> 0.5 mL/day
<b>RxB12 Forte</b> <i>Rx Vitamins</i>	1000 mcg/mL 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 4 drops/day	<input type="checkbox"/> 0.25 mL/day

\*Choose only one product for supplementation

**Retest NO SOONER THAN: May 12, 2023**

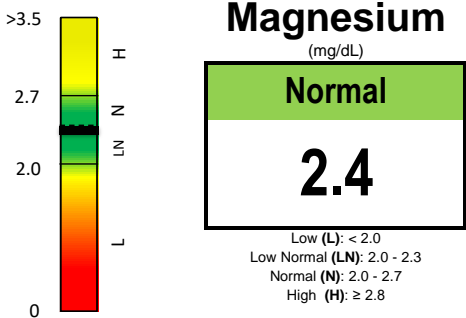


**Magnesium Report**

**PATIENT NAME:** River Caceres  
**SPECIMEN ID:** 176293  
**SPECIES:** Feline  
**GENDER:** Male Neutered  
**AGE:** 1.5  
**WEIGHT:** 15 lb  
**BREED:** DMH

**MRN:** 1102101  
**DRAW DATE:** 1-Mar-23  
**RECEIVED DATE:** 3-Mar-23  
**REPORT DATE:** 10-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@vdilab.com**

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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"/>

**Retest NO SOONER THAN:**