



**PATIENT NAME:** Kobe Martin  
**SPECIMEN ID:** 555555  
**SPECIES:** Canine  
**GENDER:** Female Spayed  
**AGE:** 12.0  
**WEIGHT:** 42.4 lb  
**BREED:** Labrador Retriever Mix

**MRN:** 1072585  
**DRAW DATE:** 31-Aug-21  
**RECEIVED DATE:** 3-Sep-21  
**REPORT DATE:** 9-Sep-21  
**SAMPLE TYPE:** Dried Serum - 3

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

## Wellness Dashboard

<p><b>Vitamin D</b></p> <p>Insufficient</p> <p><b>62.4</b></p> <p>Sufficiency: 100-150 ng/mL</p>	<p><b>B12</b></p> <p>Low Normal</p> <p><b>399.0</b></p> <p>Normal: 220-1080 pg/mL</p>	<p><b>Magnesium</b></p> <p>Low Normal</p> <p><b>2.0</b></p> <p>Normal: 1.7-2.9 mg/dL</p>	<p><b>tCa</b></p> <p>Normal</p> <p><b>9.2</b></p> <p>Normal: 8.5 - 12.0 mg/dL</p>
<p><b>PTH<sup>1-84</sup></b></p> <p>Normal: 4 - 38 pg/mL</p>	<p><b>Folate</b></p> <p>Normal: 4.3 - 21.0 ng/mL</p>		

<p><b>Inflammation (CRP)</b></p> <p>Optimal</p> <p><b>0.6</b></p> <p>Optimal: ≤ 2.0 Normal: ≤ 3.9  Mild Inflammation (m): 4 - 9.9  Mod Inflammation (M): 10 - 39.9  High Inflammation (H): ≥ 40 (mg/L)</p> <p>Patient's inflammatory state is at an optimal level.</p>	<p><b>Previous</b></p> <p></p>	<p><b>Chemistries</b></p> <p>Abnormal</p> <p>BUN Total Protein Globulin</p> <p><b>CAR: 0.2</b></p> <p>Patient CRP/Albumin Ratio (CAR) is within normal limits.</p>
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## Additional Tests (canine only)

<p><b>Cancer Risk</b></p> <p>Very Low</p> <p><b>2.1</b></p> <p>Very Low Risk: ≤ 2.1  Low Risk: 2.2 - 5.2  Elevated Risk: 5.3 - 8.9  Highly Elevated Risk: ≥ 9.0</p> <p>Patient's CRA score is low with an unlikely chance of occult cancer.</p>	<p><b>Previous</b></p> <p></p>	<p><b>Osteoarthritis (HA)</b></p> <p>Positive</p> <p><b>32.3</b></p> <p>Normal: ≤ 20  Positive: &gt; 20 (ng/mL)</p> <p>Hyaluronic acid is above the reference interval and is indicative of degenerative joint disease.</p>	<p><b>Previous</b></p> <p></p>
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# Differential List



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

<b>PATIENT NAME:</b> Kobe Martin	<b>MRN:</b> 1072585	<b>VETERINARIAN:</b>
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<b>AGE:</b> 12.0	<b>SAMPLE TYPE:</b> Dried Serum - 3	<b>PH:</b>
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<b>BREED:</b> Labrador Retriever Mix		

## The following differential list is modified based on:

Outside Ref Interval     
  Within Ref Interval     
  Not Performed     
  Impacts List

### Specialty

- Cancer Risk
- CRP
- HPT
- HA
- B12
- Folate
- PTH 1-84

### Chemistries

- ALB
- ALT
- ALP
- BUN
- Creatinine
- Glucose
- Total Protein
- Globulin
- AG Ratio
- Calcium
- BUN/Creat Ratio
- Total Bili

### Other Modifiers

- Age
- Breed
- Medication

**CAR Ratio**  
0.2

The list of possible sources are common inflammatory diseases that correspond to the level of inflammation in this patient. Potential actions below may aid in further differential diagnosis. **BASED UPON CLINICAL PRESENTATION, SOME SOURCES CAN BE IMMEDIATELY EXCLUDED.**

## Possible Source

(in decreasing probability)

Degenerative Joint Disease  
Cushing's disease  
Corticosteroids/ Meds



## Potential Action based on clinical relevance

Actions are organized by least invasive/expensive first

imaging, synovial fluid analysis, sfLDH  
ACTH stimulation test  
review patient history

Potential Action

code 1111

1) Recheck intervals for high risk breeds and dogs over the age of 5 is every 6 months. For best outcomes, every 4 months.  
2) Supplement Vitamin B12 levels according the recommendations on the Vitamin B12 report.

Comments and recommendations are made in the absence of clinical background on the patient. The list of inflammatory diseases and diagnostic procedures are not exhaustive. For more detailed discussion regarding results, comments, or recommendations, please contact VDI at 805-577-6742.

**Canine Chem 12 Report**



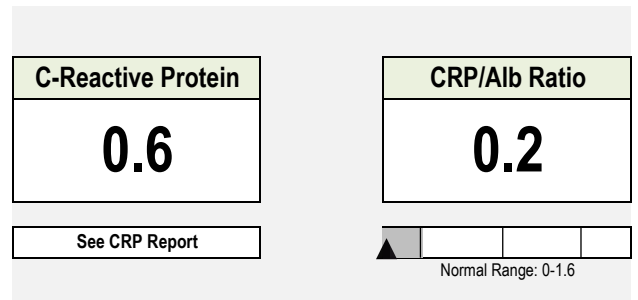
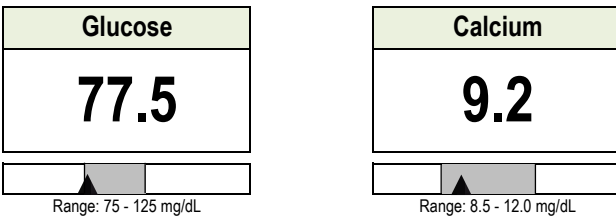
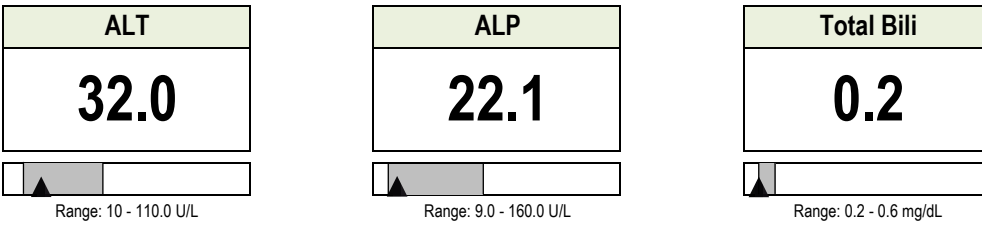
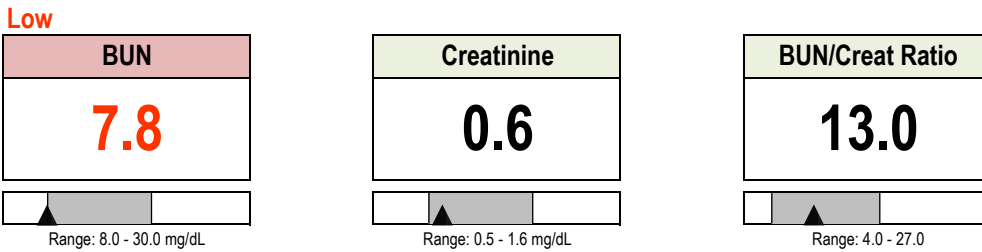
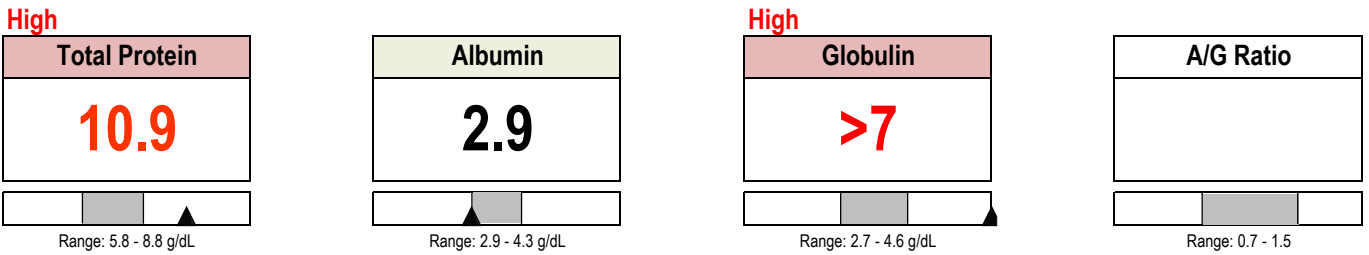
**VDI Lab Services**  
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**Chemistries**



# Vitamin D Report



VDI Lab Services  
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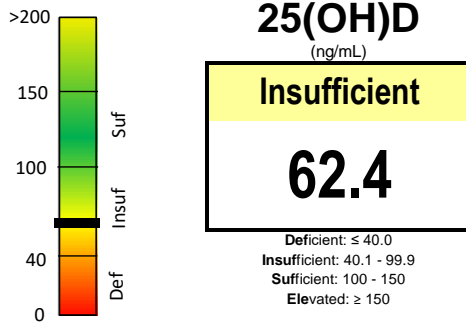
**SAMPLE TYPE:** Dried Serum - 3

**VETERINARIAN:**

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**Dose at time of draw:**

**0 IU/day**

**Increase dose by:**

**1400 IU/day**



## New Recommended Dose Range

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

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

**1400 IU/day**

**2500 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

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/PLN)

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:**

**1400 IU/day**

**2500 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"/> <b>14 drops/day</b>	<input type="checkbox"/> <b>0.75 mL/day</b>
<b>RxD3 Forte</b> <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> <b>3 drops/day</b>	<input type="checkbox"/> <b>5 drops/day</b>

**Retest NO SOONER THAN:**

**November 18, 2021**

# B12 (Cobalamin) Report

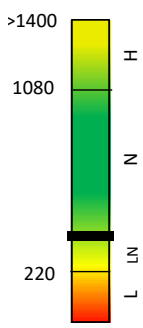


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## Cobalamin (pg/mL)

**Low Normal**  
**399.0**

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

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

B12 Dose at time of draw:

**0 mcg/day**

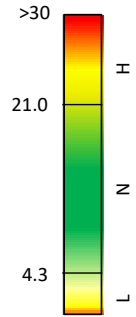
Increase B12 dose by:

**223 mcg/day**



## New Recommended B12 Dose

Fasted Sample?	Unknown
<b>223 mcg/day</b>	
B12 dosing recommendations are for daily supplementation. Continue indefinitely unless changes in health or diet require modification.	



## Folate (ng/mL)

**Normal**

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

High	SIBO Excess Dietary Folate		Excess Supplementation
	Low Dietary B12 EPI/IBD/LSA Distal SI Damage	<b>NORMAL</b>	
Low	Small Intestinal Damage EPI/IBD/LSA	Proximal SI Damage Dysbiosis Antibiotics	Proximal SI Damage Excess B12 Supplementation Antibiotics
	Low	Cobalamin	High

### Comments

Patient has low normal B12 levels. Recommend supplementing as indicated to raise B12 levels higher in the normal range. Retest in 8-10 weeks if supplementation is prescribed.

**Total B12 Dose Recommended:**

**223 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	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> use mL dose	<input type="checkbox"/> 1 mL/day
<b>RxB12 Forte</b> <i>Rx Vitamins</i>	<b>1000 mcg/mL</b> 33 mcg/drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 7 drops/day	<input type="checkbox"/> 0.25 mL/day

**Retest NO SOONER THAN: November 12, 2021**

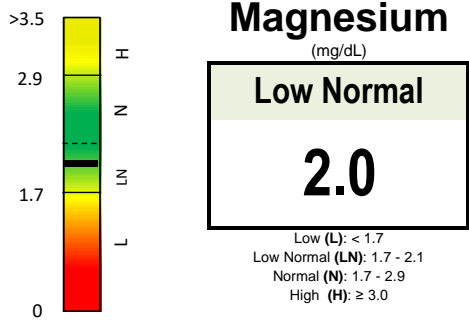


# Magnesium Report

**PATIENT NAME:** Kobe Martin  
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Dose at time of draw:

0 mg/day

Increase Dose By:

16 mg/day



## New Recommended Dose

MagRatio	Not Available
<b>16 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/dL

### Interpretive Comments

213

Patient has low normal Magnesium levels. Supplement as indicated. (Daily topical lotion is recommended). Retest in 90 days

### Supplementation Guide

<b>Total Dose Recommended:</b>		<b>16 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"/> <b>1 pumps/day</b>
Other				<input type="checkbox"/>

**Retest NO SOONER THAN: December 7, 2021**