



PATIENT NAME: Delilah Baker
SPECIMEN ID: 175871
SPECIES: Canine
GENDER: Female Spayed
AGE: 7.0
WEIGHT: 65 lb
BREED: Pit Bull Mix

MRN: 1098862
DRAW DATE: 22-Dec-22
RECEIVED DATE: 28-Dec-22
REPORT DATE: 30-Dec-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:
PH:
FAX:

Wellness Dashboard

<p>Vitamin D</p> <p>Insufficient</p> <p>61.6</p> <p>Sufficiency: 100-150 ng/mL</p>	<p>B12</p> <p>Normal</p> <p>726.3</p> <p>Normal: 220-1080 pg/mL</p>	<p>Magnesium</p> <p>Low Normal</p> <p>1.8</p> <p>Normal: 1.7-2.9 mg/dL</p> <p>supplementation when below 2.2mg/dL</p>	<p>tCa</p> <p>Normal</p> <p>9.5</p> <p>Normal: 8.5 - 12.0 mg/dL</p>
<p>PTH¹⁻⁸⁴</p> <p>Normal: 4 - 38 pg/mL</p>	<p>Folate</p> <p>Low</p> <p>3.5</p> <p>Normal: 4.3 - 21.0 ng/mL</p>		

<p>Inflammation (CRP)</p> <p>Moderate</p> <p>33.7</p> <p>Optimal: ≤ 2.0 Normal: ≤ 3.9 Mild Inflammation (m): 4 - 9.9 Moderate Inflammation (M): 10 - 39.9 High Inflammation (H): ≥ 40 (mg/L)</p> <p>Patient is in a heightened inflammatory state. Refer to differential list for possible sources.</p>	<p>Previous</p> <p>[Empty Box]</p>	<p>Chemistries</p> <p>Abnormal</p> <table border="1"> <tr> <td>Albumin</td> <td>Globulin</td> <td>A/G Ratio</td> </tr> </table> <p>CAR: 14.7</p> <p>Patient CRP/Albumin Ratio (CAR) is MODERATE suggestive of elevated risk of serious disease. Evaluate patient further.</p>	Albumin	Globulin	A/G Ratio
Albumin	Globulin	A/G Ratio			

Additional Tests

<p>Cancer Risk</p> <p>Highly Elevated</p> <p>9.0</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 highly elevated with a high likelihood there may be an occult cancerous process.</p>	<p>Previous</p> <p>[Empty Box]</p>	<p>Osteoarthritis (HA)</p> <p>Normal</p> <p>19.2</p> <p>Normal: ≤20 Positive: >20 (ng/mL)</p> <p>Hyaluronic acid is within the reference interval and not indicative of degenerative joint disease.</p>	<p>Previous</p> <p>[Empty Box]</p>
---	---	---	---

6.5

4400

need consult? email consult@vdiilab.com

Differential List



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

PATIENT NAME: Delilah Baker
SPECIMEN ID: 175871
SPECIES: Canine
GENDER: Female Spayed
AGE: 7.0
WEIGHT: 65 lb
BREED: Pit Bull Mix

MRN: 1098862
DRAW DATE: 22-Dec-22
RECEIVED DATE: 28-Dec-22
REPORT DATE: 30-Dec-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:

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
14.7

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)

Potential Action based on clinical relevance

Actions are organized by least invasive/expensive first

- Infection
- IMPA
- Cancer
- Fungal
- IBD
- Folate Deficiency



- left shift, culture, imaging
- imaging, synovial fluid analysis
- TK1 Cancer Panel (VDI), imaging, biopsy
- serological panel, culture, imaging
- rule-in through exclusion (CRP/HPT α severity), imaging, biopsy
- evaluate GI disease/Gut Biome

Potential Action

code 4312

- 1) Since cancer risk is highly elevated (CRA score), cancer should be the primary focus for investigation.
- 2) Recommend routine chemistries and imaging if clinical findings warrant.

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



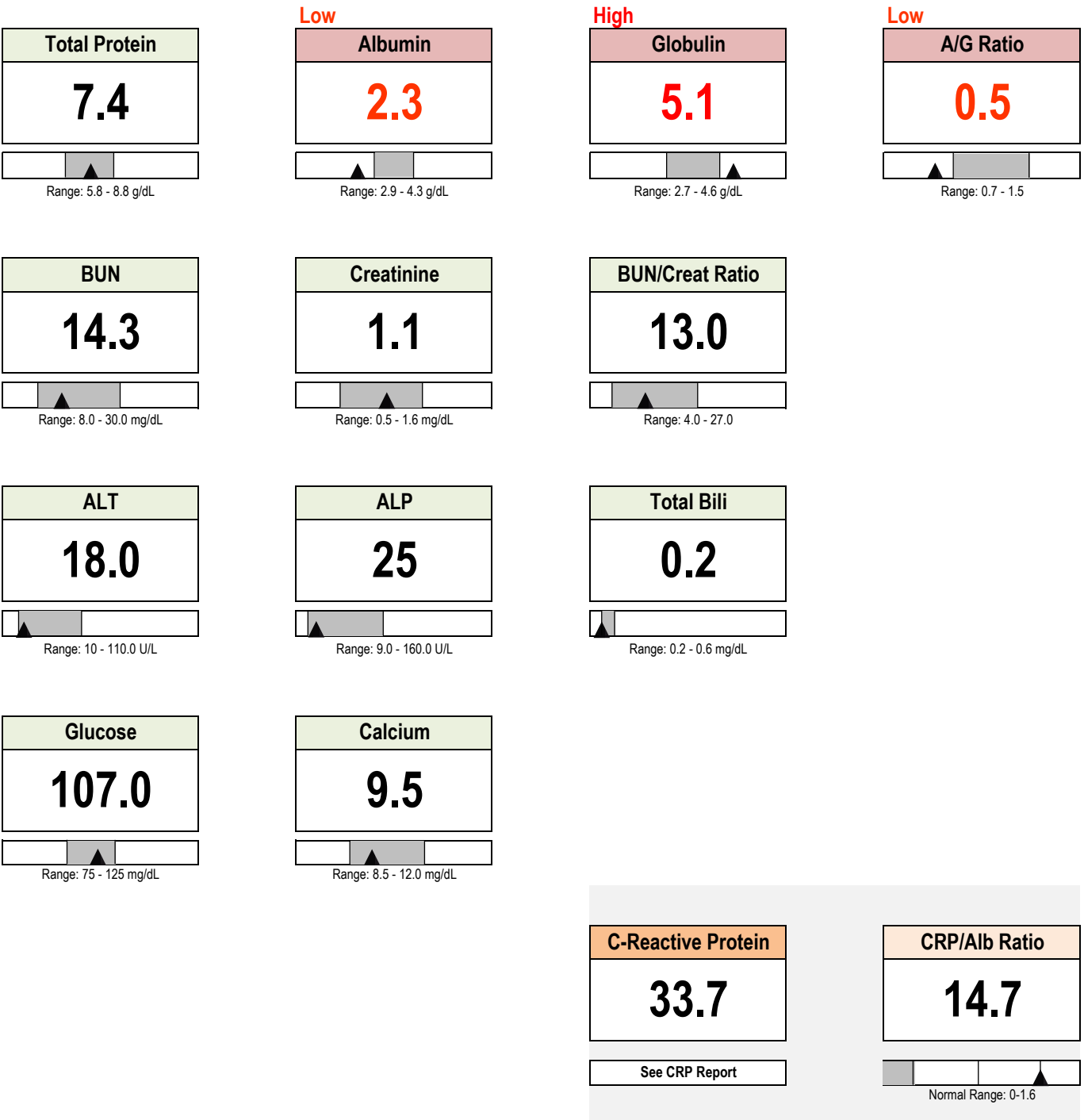
VDI Lab Services
 4685 Runway St. Ste K Simi Valley, CA 93063
 ph: 805-577-6742 fax: 805-426-8115

PATIENT NAME: Delilah Baker
SPECIMEN ID: 175871
SPECIES: Canine
GENDER: Female Spayed
AGE: 7.0
WEIGHT: 65 lb
BREED: Pit Bull Mix

MRN: 1098862
DRAW DATE: 22-Dec-22
RECEIVED DATE: 28-Dec-22
REPORT DATE: 30-Dec-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:
PH:
FAX:

Chemistries





Hyaluronic Acid Report

PATIENT NAME: Delilah Baker
SPECIMEN ID: 175871
SPECIES: Canine
GENDER: Female Spayed
AGE: 7.0
WEIGHT: 65 lb
BREED: Pit Bull Mix

MRN: 1098862
DRAW DATE: 22-Dec-22
RECEIVED DATE: 28-Dec-22
REPORT DATE: 30-Dec-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:

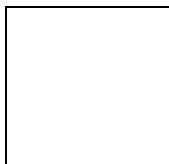
PH:
FAX:

Hyaluronic Acid (ng/mL)

Normal
19.2

Normal: ≤20
Positive: >20

Change from Previous



Patient History

ID	Date	Result ng/mL

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

Hyaluronic acid is within the reference interval and not indicative of degenerative joint disease.

*In cases of Severe DJD, chondrocyte death will lead to low levels of sHA since the joint is no longer producing HA.

Phases of Degenerative Joint Disease			
Pre-/Early	Mild	Moderate	Severe
HA: Serum HA (sHA) below the positive cutoff. HA is being produced and maintained inside the joints. CRP: Typically absent, except in IMPA	HA: sHA above positive cutoff. HA is being produced but early degeneration allows some HA to leak into peripheral blood. CRP: Typically absent, except in IMPA.	HA: Moderate to high levels of sHA increasing with disease severity. HA is being produced but significant degeneration causes HA to leak into peripheral blood. Joint cushioning & lubrication is negatively affected. CRP: Mild inflammation may be present in moderate OA, IVDD, due to mechanical damage inside the joint. IMPA presents with elevated CRP.	HA: High to declining sHA levels. In severe DJD, chondrocyte cell death limits the production of HA. HA that is produced is leaked into the peripheral blood. Joint cushioning & lubrication is severely affected. CRP: Moderate to high inflammation may be present in OA, IVDD. Elevated CRP in IMPA.
No clinical signs present, but dog may be predisposed or at high risk of DJD.	Dog may begin showing some stiffness or rigidity. Doesn't interfere with day-to-day activity, but gait may change during exercise.	Dog may be showing noticeable pain, stiffness, lethargy with dog being uncomfortable, crying, or becoming increasingly reluctant to walk around.	Dog is typically reluctant to walk, go to the bathroom, or perform daily activities due to increased pain that has become unbearable.

Supplementation Guide

Dosing Guidelines - Twice Per Day				
PRODUCT NAME	Active Ingredient	PRODUCT STRENGTH	# of Pumps	mL/Day
Trixsyn® Canine Hyaluronan	Sodium Hyaluronate	13mg/pump	2 pumps, twice daily	N/A
Trixsyn® Canine Performance	Sodium Hyaluronate Astaxanthin	13mg/pump 1mg/pump	2 pumps, twice daily	2 pumps, twice daily
Other				

Vitamin D Report



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

PATIENT NAME: Delilah Baker

VETERINARIAN:

SPECIMEN ID: 175871

MRN: 1098862

FACILITY:

SPECIES: Canine

DRAW DATE: 22-Dec-22

GENDER: Female Spayed

RECEIVED DATE: 28-Dec-22

AGE: 7.0

REPORT DATE: 30-Dec-22

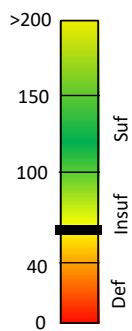
PH:

WEIGHT: 65 lb

SAMPLE TYPE: Frozen Serum

FAX:

BREED: Pit Bull Mix



25(OH)D
(ng/mL)

Insufficient

61.6

Deficient: ≤ 40.0
Insufficient: 40.1 - 99.9
Sufficient: 100 - 150
Elevated: ≥ 150

Dose at time of draw:

0 IU/day

Increase dose by:

2100 IU/day



New Recommended Dose Range

Low End Sufficiency
(~100 ng/mL)

High End Sufficiency
(~130 ng/mL)

2100 IU/day

3800 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:

2100 IU/day

3800 IU/day

PRODUCT NAME	PRODUCT STRENGTH	PRODUCT FORMAT	Low End Dose	High End Dose
RxD3 <i>Rx Vitamins</i>	100 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 0.75 mL/day	<input type="checkbox"/> 1.25 mL/day
RxD3 Forte <i>Rx Vitamins</i>	500 IU/ drop	Liquid Drops <i>Applied to food</i>	<input type="checkbox"/> 4 drops/day	<input type="checkbox"/> 8 drops/day

Retest NO SOONER THAN:

March 10, 2023

B12 (Cobalamin) Report

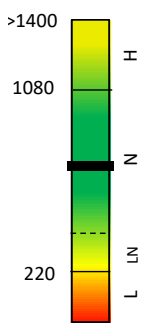


VDI Lab Services
4685 Runway St. Ste K Simi Valley, CA 93063
ph: 805-577-6742 fax: 805-426-8115

PATIENT NAME: Delilah Baker
SPECIMEN ID: 175871
SPECIES: Canine
GENDER: Female Spayed
AGE: 7.0
WEIGHT: 65 lb
BREED: Pit Bull Mix

MRN: 1098862
DRAW DATE: 22-Dec-22
RECEIVED DATE: 28-Dec-22
REPORT DATE: 30-Dec-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:
PH:
FAX:



Cobalamin (pg/mL)

Normal
726.3

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

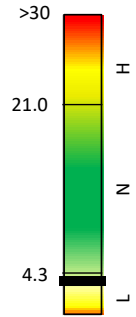
Increase B12 dose by:

0 mcg/day



New Recommended B12 Dose

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



Folate (ng/mL)

Low
3.5

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

Comments

Patient has normal B12 levels with low Folate. This is seen with Dysbiosis, damage to the proximal small intestine, and/or antibiotic use.

Total B12 Dose Recommended:

0 mcg/day

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

Magnesium Report

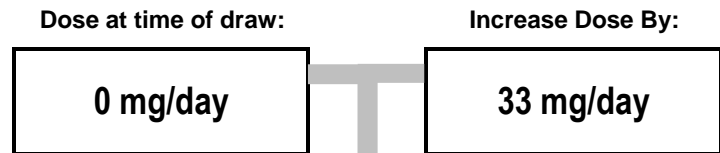
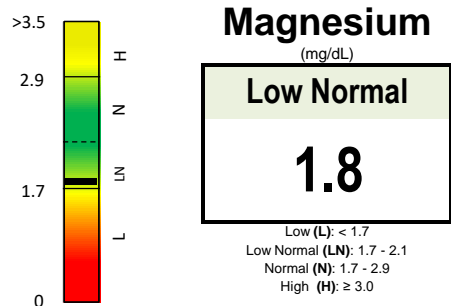


VDI Lab Services
4685 Runway St. Ste K Simi Valley, CA 93063
ph: 805-577-6742 fax: 805-426-8115

PATIENT NAME: Delilah Baker
SPECIMEN ID: 175871
SPECIES: Canine
GENDER: Female Spayed
AGE: 7.0
WEIGHT: 65 lb
BREED: Pit Bull Mix

MRN: 1098862
DRAW DATE: 22-Dec-22
RECEIVED DATE: 28-Dec-22
REPORT DATE: 30-Dec-22
SAMPLE TYPE: Frozen Serum

VETERINARIAN:
FACILITY:
PH:
FAX:



New Recommended Dose

MagRatio	Not Available
33 mg/day	

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

Patient History

ID	Date	Result mg/dL	Known Dose mg/day

Interpretive Comments - need consult? email consult@vdlab.com 214

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

Supplementation Guide

Total Dose Recommended:		33 mg/day		
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 checked="" type="checkbox"/> 3 pumps/day
Other				<input type="checkbox"/>

Additional Reviewer Comments - need consult? email consult@ **Retest NO SOONER THAN: April 2, 2023**