Quest Diagnostics

SPECIMEN: SZ002697E

REOUISITION: 100379983

Lab ref no:

SPECIMEN INFORMATION

COLLECTED: 12/13/2021 09:47AM PST RECEIVED: 12/13/2021 09:48AM PST REPORTED: 12/23/2021 02:45PM PST

PATIENT INFORMATION

Beaman, Cooper

DOB: April 23, 1998

AGE: 23 GENDER: Male FASTING: Unknown

Clinical Info:

REPORT STATUS: FINAL

ORDERING PHYSICIAN

Ramos, C.

**NPI:** 1447451323 CLIENT INFORMATION Private MD Labs 445 Hwy 46S

Suite 29-214 Dickson, TN 37055

Test Name	Result	Flag	Reference Range	Lab
FASTING: YES				

FASTING: YES

ESTRADIOL, ULTRASENSITIVE, LC/MS/MS

ESTRADIOL, ULTRASENSITIVE, LC/MS 16

NORMAL < OR = 29 pg/mL 03

01

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical

Sex Hormone Binding Globulin (SHBG)

SEX HORMONE BINDING GLOBULIN	39	NORMAL	10-50 nmol/L	04
T3, FREE				
T3, FREE	3.8	NORMAL	2.3-4.2 pg/mL	02
<b>T4</b> Free Direct Dialysis				
T4, FREE, DIRECT DIALYSIS	1.5	NORMAL	0.9-2.2 ng/dL	03

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TESTOSTERONE, FREE AND TOTAL, LC/MS/MS

TESTOSTERONE, TOTAL, MS 571 NORMAL 250-1100 ng/dL

For additional information, please refer to http://education.questdiagnostics.com/faq/TotalTestosteroneLCMSMS (This link is being provided for informational/ educational purposes only.)

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TESTOSTERONE, FREE 80.2 NORMAL 35.0-155.0 pg/mL 01

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DHEA SULFATE, IMMUNOASSAY

DHEA SULFATE 360 NORMAL 85-690 mcg/dL 04

Cortisol, A.M.

CORTISOL, A.M. 17.7 NORMAL 02 mcg/dL

Reference Range

8 a.m. (7-9 a.m.) Specimen: 4.0-22.0

FERRITIN	70	NORMAL	38-380 ng/mL	02
FOLATE, SERUM				
FOLATE, SERUM	15.4	NORMAL	ng/mL	02
Reference Range				
Low: <3.4				
Borderline: 3.4-5.4 Normal: >5.4				
NOTHIAL. >3.4				
CBC (INCLUDES DIFF/PLT)				
WHITE BLOOD CELL COUNT	4.2	NORMAL	3.8-10.8 Thousand/uL	02
RED BLOOD CELL COUNT	5.03	NORMAL	4.20-5.80 Million/uL	02
HEMOGLOBIN	14.2	NORMAL	13.2-17.1 g/dL	02
HEMATOCRIT	42.5	NORMAL	38.5-50.0 %	02
MCV	84.5	NORMAL	80.0-100.0 fL	02
MCH	28.2	NORMAL	27.0-33.0 pg	02
MCHC	33.4	NORMAL	32.0-36.0 g/dL	02
RDW	12.0	NORMAL	11.0-15.0 %	02
PLATELET COUNT	208	NORMAL	140-400 Thousand/uL	02
MPV	11.5	NORMAL	7.5-12.5 fL	02
ABSOLUTE NEUTROPHILS	2087	NORMAL	1500-7800 cells/uL	02
ABSOLUTE BAND NEUTROPHILS	DNR	NORMAL	0-750 cells/uL	02
ABSOLUTE METAMYELOCYTES	DNR	NORMAL	0 cells/uL	02
ABSOLUTE MYELOCYTES	DNR	NORMAL	0 cells/uL	02
ABSOLUTE PROMYELOCYTES	DNR	NORMAL	0 cells/uL	02
ABSOLUTE LYMPHOCYTES	1617	NORMAL	850-3900 cells/uL	02
ABSOLUTE MONOCYTES	378	NORMAL	200-950 cells/uL	02
ABSOLUTE EOSINOPHILS	88	NORMAL	15-500 cells/uL	02
ABSOLUTE BASOPHILS	29	NORMAL	0-200 cells/uL	02
ABSOLUTE BLASTS	DNR	NORMAL	0 cells/uL	02
ABSOLUTE NUCLEATED RBC	DNR	NORMAL	0 cells/uL	02
NEUTROPHILS	49.7	NORMAL	%	02
BAND NEUTROPHILS	DNR	NORMAL	%	02
METAMYELOCYTES	DNR	NORMAL	%	02
MYELOCYTES	DNR	NORMAL	%	02
PROMYELOCYTES	DNR	NORMAL	%	02
LYMPHOCYTES	38.5	NORMAL	%	02
REACTIVE LYMPHOCYTES	DNR	NORMAL	0-10 %	02
MONOCYTES	9.0	NORMAL	%	02
EOSINOPHILS	2.1	NORMAL	%	02
BASOPHILS	0.7	NORMAL	%	02
BLASTS	DNR	NORMAL	%	02
NUCLEATED RBC	DNR	NORMAL	0 /100 WBC	02
COMMENT(S)	DNR	NORMAL		02
THYROID PANEL WITH TSH (T3 UPTAKE,		·		
T3 UPTAKE	29	NORMAL	22-35 %	02
T4 (THYROXINE), TOTAL	8.4	NORMAL	4.9-10.5 mcg/dL	02
FREE T4 INDEX (T7)	2.4	NORMAL	1.4-3.8	02
TSH	1.17	NORMAL	0.40-4.50 mIU/L	02
PROGESTERONE				
PROGESTERONE	0.5	NORMAL	<1.4 ng/mL	02
Prolactin				
PROLACTIN	7.5	NORMAL	2.0-18.0 ng/mL	02
IRON AND TOTAL IRON BINDING CAPACIT				
IRON, TOTAL	66	NORMAL	50-195 mcg/dL	02
IRON BINDING CAPACITY	293	NORMAL	250-425 mcg/dL (calc)	02
% SATURATION	23	NORMAL	20-48 % (calc)	02
RETICULOCYTE COUNT				
RETICULOCYTE COUNT, AUTOMATED	0.8	NORMAL	%	02
RETICULOCYTE, ABSOLUTE	40240	NORMAL	25000-90000 cells/uL	02
T3, TOTAL				
T3, TOTAL	146	NORMAL	76-181 ng/dL	02
Dihydrotestosterone, LC/MS/MS				
DIHYDROTESTOSTERONE, LC/MS/MS	31	NORMAL	12-65 ng/dL	03

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### REVERSE T3, LC/MS/MS

T3 REVERSE, LC/MS/MS 11 NORMAL 8-25 ng/dL 03

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### VITAMIN B12

VITAMIN B12 324 NORMAL 200-1100 pg/mL 02

Please Note: Although the reference range for vitamin B12 is 200-1100 pg/mL, it has been reported that between 5 and 10% of patients with values between 200 and 400 pg/mL may experience neuropsychiatric and hematologic abnormalities due to occult B12 deficiency; less than 1% of patients with values above 400 pg/mL will have symptoms.

## QUESTASSURED 25-OH VIT D, (D2,D3), LC/MS/MS

VITAMIN D, 25-OH, TOTAL 38 NORMAL 30-100 ng/mL 01

Vitamin D, 25-Hydroxy reports concentrations of two common forms, 25-OHD2 and 25-OHD3. 25-OHD3 indicates both endogenous production and supplementation. 25-OHD2 is an indicator of exogenous sources, such as diet or supplementation. Therapy is based on measurement of Total 25-OHD, with levels <20 ng/mL indicative of Vitamin D deficiency, while levels between 20 ng/mL and 30 ng/mL suggest insufficiency. Optimal levels are > or = 30 ng/mL.

Vitamin D is fat-soluble and therefore inadvertent or intentional ingestion of excessively high amounts could be toxic. Studies in children and adults suggest blood levels would need to exceed 150 ng/mL before there is any concern. Holick MF, Binkley NC, Bischoff-ferrari HA, et al., Evaluation, treatment, and prevention of vitamin D deficiency: an Endocrine Society clinical practice guideline. J Clin. Endocrinol. Metab. 2011;96(7):1911-30.

VITAMIN D, 25-OH, D3 38 NORMAL See Note: ng/mL 01

Reference Range:

Reference Range Not established

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VITAMIN D, 25-OH, D2 <4 NORMAL See Note: ng/mL 01

### Reference Range:

Reference Range Not established

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Note 1

For additional information, please refer to http://education.QuestDiagnostics.com/faq/FAQ199 (This link is being provided for informational/educational purposes only.)

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