

Quest Diagnostics

SPECIMEN INFORMATION

SPECIMEN:

REQUISITION:

Lab ref no:

PATIENT INFORMATION

Name

DOB:

AGE:

GENDER:

FASTING:

REPORT STATUS: FINAL

ORDERING PHYSICIAN

Name

CLIENT INFORMATION

Private MD Labs

COLLECTED: 10/20/2022 07:02AM PDT

RECEIVED: 10/20/2022 07:02AM PDT

REPORTED: 10/26/2022 11:10AM PDT

Test Name	Result	Flag	Reference Range	Lab
FASTING: YES				
Comprehensive Metabolic Panel				
GLUCOSE	88	NORMAL	65-99 mg/dL	01
Fasting reference interval				
UREA NITROGEN (BUN)	24	NORMAL	7-25 mg/dL	01
CREATININE	1.38	HIGH	0.70-1.30 mg/dL	01
EGFR	62	NORMAL	> OR = 60 mL/min/1.73m2	01
The eGFR is based on the CKD-EPI 2021 equation. To calculate the new eGFR from a previous Creatinine or Cystatin C result, go to https://www.kidney.org/professionals/kdoqi/gfr%5Fcalculator				
BUN/CREATININE RATIO	17	NORMAL	6-22 (calc)	01
SODIUM	139	NORMAL	135-146 mmol/L	01
POTASSIUM	5.1	NORMAL	3.5-5.3 mmol/L	01
CHLORIDE	102	NORMAL	98-110 mmol/L	01
CARBON DIOXIDE	30	NORMAL	20-32 mmol/L	01
CALCIUM	9.7	NORMAL	8.6-10.3 mg/dL	01
PROTEIN, TOTAL	7.2	NORMAL	6.1-8.1 g/dL	01
ALBUMIN	4.4	NORMAL	3.6-5.1 g/dL	01
GLOBULIN	2.8	NORMAL	1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	1.6	NORMAL	1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.8	NORMAL	0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	78	NORMAL	35-144 U/L	01
AST	24	NORMAL	10-35 U/L	01
ALT	22	NORMAL	9-46 U/L	01
IGF-1, LC/MS				
IGF 1, LC/MS	169	NORMAL	50-317 ng/mL	03
Z SCORE (MALE)	0.4	NORMAL	-2.0 - +2.0 SD	03
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 purposes.				
Z SCORE (FEMALE)	DNR	NORMAL		03
DHEA, (Dehydroepiandrosterone), Unconjugated				
DHEA, UNCONJUGATED	228	NORMAL	147-1760 ng/dL	03

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 purposes.

Sex Hormone Binding Globulin (SHBG)

SEX HORMONE BINDING GLOBULIN	33	NORMAL	10-50 nmol/L	01
------------------------------	----	--------	--------------	----

T3, FREE

T3, FREE	4.4	HIGH	2.3-4.2 pg/mL	01
----------	-----	------	---------------	----

Testosterone, Free (Dialysis) and Total, MS

TESTOSTERONE, TOTAL, MS	1533	HIGH	250-1100 ng/dL	02
-------------------------	------	------	----------------	----

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

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

TESTOSTERONE, FREE	339.6	HIGH	35.0-155.0 pg/mL	02
--------------------	-------	------	------------------	----

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

CORTISOL, TOTAL

CORTISOL, TOTAL	15.7	NORMAL	mcg/dL	01
-----------------	------	--------	--------	----

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

Reference Range: For 4 p.m. (3-5 p.m.) Specimen: 3.0-17.0

* Please interpret above results accordingly *

DHEA SULFATE, IMMUNOASSAY

DHEA SULFATE	200	NORMAL	32-279 mcg/dL	01
--------------	-----	--------	---------------	----

DHEA-S values fall with advancing age.
 For reference, the reference intervals for 31-40 year old patients are:

Male: 93-415 mcg/dL

Female: 19-237 mcg/dL

Estradiol

ESTRADIOL	51	HIGH	< OR = 39 pg/mL	01
-----------	----	------	-----------------	----

Reference range established on post-pubertal patient population. No pre-pubertal reference range established using this assay. For any patients for whom low Estradiol levels are anticipated (e.g. males, pre-pubertal children and hypogonadal/post-menopausal females), the Quest Diagnostics Nichols Institute Estradiol, Ultrasensitive, LCMSMS assay is recommended (order code 30289).

Please note: patients being treated with the drug fulvestrant (Faslodex(R)) have demonstrated significant interference in immunoassay methods for estradiol measurement. The cross reactivity could lead to falsely elevated estradiol test results leading to an inappropriate clinical assessment of estrogen status.

Quest Diagnostics order code 30289-Estradiol, Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant.

HEMOGLOBIN A1c

HEMOGLOBIN A1c	5.3	NORMAL	<5.7 % of total Hgb	01
----------------	-----	--------	---------------------	----

For the purpose of screening for the presence of diabetes:

<5.7% Consistent with the absence of diabetes
 5.7-6.4% Consistent with increased risk for diabetes (prediabetes)
 > or =6.5% Consistent with diabetes

This assay result is consistent with a decreased risk of diabetes.

Currently, no consensus exists regarding use of hemoglobin A1c for diagnosis of diabetes in children.

According to American Diabetes Association (ADA) guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes(ADA).

PSA, TOTAL

PSA, TOTAL	0.47	NORMAL	< OR = 4.00 ng/mL	01
------------	------	--------	-------------------	----

The total PSA value from this assay system is standardized against the WHO standard. The test result will be approximately 20% lower when compared to the equimolar-standardized total PSA (Beckman Coulter). Comparison of serial PSA results be should interpreted with this fact in mind.

This test was performed using the Siemens chemiluminescent method. Values obtained from different assay methods cannot be used interchangeably. PSA levels, regardless of value, should not be interpreted as absolute evidence of the presence or absence of disease.

CBC (includes Differential and Platelets)

WHITE BLOOD CELL COUNT	7.3	NORMAL	3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	6.16	HIGH	4.20-5.80 Million/uL	01
HEMOGLOBIN	18.8	HIGH	13.2-17.1 g/dL	01
HEMATOCRIT	56.3	HIGH	38.5-50.0 %	01
MCV	91.4	NORMAL	80.0-100.0 fL	01
MCH	30.5	NORMAL	27.0-33.0 pg	01
MCHC	33.4	NORMAL	32.0-36.0 g/dL	01
RDW	13.7	NORMAL	11.0-15.0 %	01
PLATELET COUNT	300	NORMAL	140-400 Thousand/uL	01
MPV	10.1	NORMAL	7.5-12.5 fL	01
ABSOLUTE NEUTROPHILS	4402	NORMAL	1500-7800 cells/uL	01
ABSOLUTE BAND NEUTROPHILS	DNR	NORMAL	0-750 cells/uL	01
ABSOLUTE METAMYELOCYTES	DNR	NORMAL	0 cells/uL	01
ABSOLUTE MYELOCYTES	DNR	NORMAL	0 cells/uL	01
ABSOLUTE PROMYELOCYTES	DNR	NORMAL	0 cells/uL	01
ABSOLUTE LYMPHOCYTES	2358	NORMAL	850-3900 cells/uL	01
ABSOLUTE MONOCYTES	402	NORMAL	200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	117	NORMAL	15-500 cells/uL	01
ABSOLUTE BASOPHILS	22	NORMAL	0-200 cells/uL	01
ABSOLUTE BLASTS	DNR	NORMAL	0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR	NORMAL	0 cells/uL	01

NEUTROPHILS	60.3	NORMAL	%	01
BAND NEUTROPHILS	DNR	NORMAL	%	01
METAMYELOCYTES	DNR	NORMAL	%	01
MYELOCYTES	DNR	NORMAL	%	01
PROMYELOCYTES	DNR	NORMAL	%	01
LYMPHOCYTES	32.3	NORMAL	%	01
REACTIVE LYMPHOCYTES	DNR	NORMAL	0-10 %	01
MONOCYTES	5.5	NORMAL	%	01
EOSINOPHILS	1.6	NORMAL	%	01
BASOPHILS	0.3	NORMAL	%	01
BLASTS	DNR	NORMAL	%	01
NUCLEATED RBC	DNR	NORMAL	0 /100 WBC	01
COMMENT(S)	DNR	NORMAL		01
FSH and LH				
FSH	2.0	NORMAL	1.6-8.0 mIU/mL	01
LH	0.2	LOW	1.5-9.3 mIU/mL	01
T4 FREE, (FT4)				
T4, FREE	1.6	NORMAL	0.8-1.8 ng/dL	01
TSH				
TSH	1.82	NORMAL	0.40-4.50 mIU/L	01
QuestAssured™ 25-Hydroxyvitamin D (D2, D3)				
VITAMIN D, 25-OH, TOTAL	40	NORMAL	30-100 ng/mL	02

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	40	NORMAL	See Note: ng/mL	02
Reference Range:				
Reference Range				
Not established				
This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.				
VITAMIN D, 25-OH, D2	<4	NORMAL	See Note: ng/mL	02
Reference Range:				

Reference Range
Not established

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.
See Note 1

Note 1

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

HEPATIC FUNCTION PANEL (ALB, TBILI, DDILI, AP, AST, ALT, AND TP)

PROTEIN, TOTAL	7.0	NORMAL	6.1-8.1 g/dL	01
ALBUMIN	4.3	NORMAL	3.6-5.1 g/dL	01
GLOBULIN	2.7	NORMAL	1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	1.6	NORMAL	1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.9	NORMAL	0.2-1.2 mg/dL	01
BILIRUBIN, DIRECT	0.2	NORMAL	< OR = 0.2 mg/dL	01
BILIRUBIN, INDIRECT	0.7	NORMAL	0.2-1.2 mg/dL (calc)	01
ALKALINE PHOSPHATASE	102	NORMAL	37-153 U/L	01
AST	27	NORMAL	10-35 U/L	01
ALT	17	NORMAL	6-29 U/L	01
