

Quest Diagnostics
 SPECIMEN INFORMATION
 SPECIMEN:
 REQUISITION:
 Lab ref no:

PATIENT INFORMATION
Name
 DOB:
 AGE:
 GENDER:
 FASTING:

REPORT STATUS: FINAL
 ORDERING PHYSICIAN
Name
 CLIENT INFORMATION

COLLECTED: 10/18/2022 08:44AM PDT
 RECEIVED: 10/18/2022 08:45AM PDT
 REPORTED: 10/22/2022 09:44PM PDT

Test Name	Result	Flag	Reference Range	Lab
FASTING: YES				
Comprehensive Metabolic Panel				
GLUCOSE	89	NORMAL	65-99 mg/dL	01
Fasting reference interval				
UREA NITROGEN (BUN)	17	NORMAL	7-25 mg/dL	01
CREATININE	0.92	NORMAL	0.60-1.26 mg/dL	01
EGFR	113	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	NOT APPLICABLE	NORMAL	6-22 (calc)	01
SODIUM	138	NORMAL	135-146 mmol/L	01
POTASSIUM	5.2	NORMAL	3.5-5.3 mmol/L	01
CHLORIDE	103	NORMAL	98-110 mmol/L	01
CARBON DIOXIDE	31	NORMAL	20-32 mmol/L	01
CALCIUM	9.6	NORMAL	8.6-10.3 mg/dL	01
PROTEIN, TOTAL	7.1	NORMAL	6.1-8.1 g/dL	01
ALBUMIN	4.4	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	0.5	NORMAL	0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	107	NORMAL	36-130 U/L	01
AST	36	NORMAL	10-40 U/L	01
ALT	31	NORMAL	9-46 U/L	01
IGF-1, LC/MS				
IGF 1, LC/MS	158	NORMAL	53-331 ng/mL	03
Z SCORE (MALE)	0.1	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
Sex Hormone Binding Globulin (SHBG)				
SEX HORMONE BINDING GLOBULIN	17	NORMAL	10-50 nmol/L	01
Testosterone, Free (Dialysis) and Total, MS				
TESTOSTERONE, TOTAL, MS	1895	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.)

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TESTOSTERONE, FREE	643.8	HIGH	35.0-155.0 pg/mL	02
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Estradiol

ESTRADIOL	64	HIGH	< OR = 39 pg/mL	01
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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.

PSA, TOTAL

PSA, TOTAL	0.80	NORMAL	< OR = 4.00 ng/mL	01
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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 should be 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	6.3	NORMAL	3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	5.85	HIGH	4.20-5.80 Million/uL	01
HEMOGLOBIN	16.6	NORMAL	13.2-17.1 g/dL	01
HEMATOCRIT	50.1	HIGH	38.5-50.0 %	01
MCV	85.6	NORMAL	80.0-100.0 fL	01
MCH	28.4	NORMAL	27.0-33.0 pg	01
MCHC	33.1	NORMAL	32.0-36.0 g/dL	01

RDW	12.5	NORMAL	11.0-15.0 %	01
PLATELET COUNT	279	NORMAL	140-400 Thousand/uL	01
MPV	11.8	NORMAL	7.5-12.5 fL	01
ABSOLUTE NEUTROPHILS	3383	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	2356	NORMAL	850-3900 cells/uL	01
ABSOLUTE MONOCYTES	460	NORMAL	200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	63	NORMAL	15-500 cells/uL	01
ABSOLUTE BASOPHILS	38	NORMAL	0-200 cells/uL	01
ABSOLUTE BLASTS	DNR	NORMAL	0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR	NORMAL	0 cells/uL	01
NEUTROPHILS	53.7	NORMAL	%	01
BAND NEUTROPHILS	DNR	NORMAL	%	01
METAMYELOCYTES	DNR	NORMAL	%	01
MYELOCYTES	DNR	NORMAL	%	01
PROMYELOCYTES	DNR	NORMAL	%	01
LYMPHOCYTES	37.4	NORMAL	%	01
REACTIVE LYMPHOCYTES	DNR	NORMAL	0-10 %	01
MONOCYTES	7.3	NORMAL	%	01
EOSINOPHILS	1.0	NORMAL	%	01
BASOPHILS	0.6	NORMAL	%	01
BLASTS	DNR	NORMAL	%	01
NUCLEATED RBC	DNR	NORMAL	0 /100 WBC	01
COMMENT(S)	DNR	NORMAL		01

Lipid Panel, Standard

CHOLESTEROL, TOTAL	136	NORMAL	<200 mg/dL	01
HDL CHOLESTEROL	31	LOW	> OR = 40 mg/dL	01
TRIGLYCERIDES	63	NORMAL	<150 mg/dL	01
LDL-CHOLESTEROL	90	NORMAL	mg/dL (calc)	01

Reference range: <100

Desirable range <100 mg/dL for primary prevention;
<70 mg/dL for patients with CHD or diabetic patients
with > or = 2 CHD risk factors.

LDL-C is now calculated using the Martin-Hopkins calculation, which is a validated novel method providing better accuracy than the Friedewald equation in the estimation of LDL-C.

Martin SS et al. JAMA. 2013;310(19): 2061-2068
(<http://education.QuestDiagnostics.com/faq/FAQ164>)

CHOL/HDL-C RATIO	4.4	NORMAL	<5.0 (calc)	01
NON HDL CHOLESTEROL	105	NORMAL	<130 mg/dL (calc)	01

For patients with diabetes plus 1 major ASCVD risk factor, treating to a non-HDL-C goal of <100 mg/dL (LDL-C of <70 mg/dL) is considered a therapeutic option.

Dihydrotestosterone

DIHYDROTESTOSTERONE, LC/MS/MS	114	HIGH	12-65 ng/dL	03
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