

Quest Diagnostics

PATIENT INFORMATION

REPORT STATUS: FINAL

SPECIMEN INFORMATION

Name

ORDERING PHYSICIAN

SPECIMEN:

DOB:

Name

REQUISITION:

AGE:

CLIENT INFORMATION

Lab ref no:

GENDER:

FASTING:

COLLECTED: 10/19/2022 09:55AM PDT

RECEIVED: 10/19/2022 09:55AM PDT

REPORTED: 10/24/2022 12:18PM PDT

Test Name	Result	Flag	Reference Range	Lab
<b>Comprehensive Metabolic Panel</b>				
GLUCOSE	86	NORMAL	65-99 mg/dL	01
Fasting reference interval				
UREA NITROGEN (BUN)	16	NORMAL	7-25 mg/dL	01
CREATININE	0.81	NORMAL	0.50-0.96 mg/dL	01
EGFR	101	NORMAL	> OR = 60 mL/min/1.73m <sup>2</sup>	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 <a href="https://www.kidney.org/professionals/kdoqi/gfr%5Fcalculator">https://www.kidney.org/professionals/kdoqi/gfr%5Fcalculator</a>				
BUN/CREATININE RATIO	NOT APPLICABLE	NORMAL	6-22 (calc)	01
SODIUM	138	NORMAL	135-146 mmol/L	01
POTASSIUM	4.6	NORMAL	3.5-5.3 mmol/L	01
CHLORIDE	102	NORMAL	98-110 mmol/L	01
CARBON DIOXIDE	31	NORMAL	20-32 mmol/L	01
CALCIUM	10.3	HIGH	8.6-10.2 mg/dL	01
PROTEIN, TOTAL	7.2	NORMAL	6.1-8.1 g/dL	01
ALBUMIN	4.9	NORMAL	3.6-5.1 g/dL	01
GLOBULIN	2.3	NORMAL	1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	2.1	NORMAL	1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.4	NORMAL	0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	41	NORMAL	31-125 U/L	01
AST	14	NORMAL	10-30 U/L	01
ALT	10	NORMAL	6-29 U/L	01
<b>IGF-1, LC/MS</b>				
IGF 1, LC/MS	213	NORMAL	63-373 ng/mL	02
Z SCORE (MALE)	DNR	NORMAL		02
Z SCORE (FEMALE)	0.7	NORMAL	-2.0 - +2.0 SD	02

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.

**Testosterone, Free (Dialysis) and Total, MS**

TESTOSTERONE, TOTAL, MS	17	NORMAL	2-45 ng/dL	03
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For additional information, please refer to <https://education.questdiagnostics.com/faq/FAQ165>  
(This link is being provided for informational/educational purposes only.)  
(Note)

This test was developed and its analytical performance characteristics have been determined by medfusion. 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	2.3	NORMAL	0.1-6.4 pg/mL	03
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(Note)

This test was developed and its analytical performance characteristics have been determined by medfusion. 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.

MDF  
 med fusion  
 2501 South State Highway 121, Suite 1100  
 Lewisville TX 75067  
 972-966-7300  
 Michael Chaump, MD

**Estradiol**

ESTRADIOL	17	NORMAL	pg/mL	01
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Reference Range  
 Follicular Phase: 19-144  
 Mid-Cycle: 64-357  
 Luteal Phase: 56-214  
 Postmenopausal: < or = 31

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.

**CBC (includes Differential and Platelets)**

WHITE BLOOD CELL COUNT	7.7	NORMAL	3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	4.85	NORMAL	3.80-5.10 Million/uL	01
HEMOGLOBIN	14.9	NORMAL	11.7-15.5 g/dL	01
HEMATOCRIT	44.8	NORMAL	35.0-45.0 %	01
MCV	92.4	NORMAL	80.0-100.0 fL	01
MCH	30.7	NORMAL	27.0-33.0 pg	01
MCHC	33.3	NORMAL	32.0-36.0 g/dL	01
RDW	11.6	NORMAL	11.0-15.0 %	01
PLATELET COUNT	317	NORMAL	140-400 Thousand/uL	01
MPV	11.8	NORMAL	7.5-12.5 fL	01
ABSOLUTE NEUTROPHILS	4227	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	2649	NORMAL	850-3900 cells/uL	01
ABSOLUTE MONOCYTES	539	NORMAL	200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	239	NORMAL	15-500 cells/uL	01
ABSOLUTE BASOPHILS	46	NORMAL	0-200 cells/uL	01
ABSOLUTE BLASTS	DNR	NORMAL	0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR	NORMAL	0 cells/uL	01

NEUTROPHILS	54.9	NORMAL	%	01
BAND NEUTROPHILS	DNR	NORMAL	%	01
METAMYELOCYTES	DNR	NORMAL	%	01
MYELOCYTES	DNR	NORMAL	%	01
PROMYELOCYTES	DNR	NORMAL	%	01
LYMPHOCYTES	34.4	NORMAL	%	01
REACTIVE LYMPHOCYTES	DNR	NORMAL	0-10 %	01
MONOCYTES	7.0	NORMAL	%	01
EOSINOPHILS	3.1	NORMAL	%	01
BASOPHILS	0.6	NORMAL	%	01
BLASTS	DNR	NORMAL	%	01
NUCLEATED RBC	DNR	NORMAL	0 /100 WBC	01
COMMENT(S)	DNR	NORMAL		01

**Thyroid Panel with TSH**

T3 UPTAKE	30	NORMAL	22-35 %	01
T4 (THYROXINE), TOTAL	7.7	NORMAL	5.1-11.9 mcg/dL	01
FREE T4 INDEX (T7)	2.3	NORMAL	1.4-3.8	01
TSH	1.40	NORMAL	mIU/L	01

Reference Range

> or = 20 Years 0.40-4.50

Pregnancy Ranges

First trimester 0.26-2.66

Second trimester 0.55-2.73

Third trimester 0.43-2.91

**Lipid Panel, Standard**

CHOLESTEROL, TOTAL	152	NORMAL	<200 mg/dL	01
HDL CHOLESTEROL	51	NORMAL	> OR = 50 mg/dL	01
TRIGLYCERIDES	72	NORMAL	<150 mg/dL	01
LDL-CHOLESTEROL	85	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	3.0	NORMAL	<5.0 (calc)	01
NON HDL CHOLESTEROL	101	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.

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