

DOB:                      Age:                      Specimen:                      Collected:  
 Sex:                        Fasting:                      Requisition:                      Received:  
 Phone:                      Lab Reference                      Reported:  
 Patient ID:                      Report Status: FINAL / SEE REPORT

REQUEST A TEST  
 7027 MILL RD STE 201  
 BRECKSVILLE, OH 44141-1852  
 Phone: (888) 732-2348

## COMPREHENSIVE METABOLIC PANEL

FINAL

Lab:

Analyte	Value	Reference Range	FINAL
<b>GLUCOSE</b> (2345-7) Fasting reference interval	<b>80</b>	Reference Range: 65-99 mg/dL	FINAL
<b>UREA NITROGEN (BUN)</b> (3094-0)	<b>14</b>	Reference Range: 7-25 mg/dL	FINAL
<b>CREATININE</b> (2160-0)	<b>0.87</b>	Reference Range: 0.60-1.24 mg/dL	FINAL
<b>EGFR</b> (98979-8)	<b>124</b>	Reference Range: > OR = 60 mL/min/1.73m2	FINAL
<b>BUN/CREATININE RATIO</b> (3097-3) Not Reported: BUN and Creatinine are within reference range.	<b>SEE NOTE:</b>	Reference Range: 6-22 (calc)	FINAL
<b>SODIUM</b> (2951-2)	<b>141</b>	Reference Range: 135-146 mmol/L	FINAL
<b>POTASSIUM</b> (2823-3)	<b>5.0</b>	Reference Range: 3.5-5.3 mmol/L	FINAL
<b>CHLORIDE</b> (2075-0)	<b>105</b>	Reference Range: 98-110 mmol/L	FINAL
<b>CARBON DIOXIDE</b> (2028-9)	<b>30</b>	Reference Range: 20-32 mmol/L	FINAL
<b>CALCIUM</b> (17861-6)	<b>10.2</b>	Reference Range: 8.6-10.3 mg/dL	FINAL
<b>PROTEIN, TOTAL</b> (2885-2)	<b>7.6</b>	Reference Range: 6.1-8.1 g/dL	FINAL
<b>ALBUMIN</b> (1751-7)	<b>4.7</b>	Reference Range: 3.6-5.1 g/dL	FINAL
<b>GLOBULIN</b> (10834-0)	<b>2.9</b>	Reference Range: 1.9-3.7 g/dL (calc)	FINAL
<b>ALBUMIN/GLOBULIN RATIO</b> (1759-0)	<b>1.6</b>	Reference Range: 1.0-2.5 (calc)	FINAL
<b>BILIRUBIN, TOTAL</b> (1975-2)	<b>0.5</b>	Reference Range: 0.2-1.2 mg/dL	FINAL
<b>ALKALINE PHOSPHATASE</b> (6768-6)	<b>107</b>	Reference Range: 36-130 U/L	FINAL
<b>AST</b> (1920-8)	<b>22</b>	Reference Range: 10-40 U/L	FINAL
<b>ALT</b> (1742-6)	<b>34</b>	Reference Range: 9-46 U/L	FINAL

## TESTOSTERONE, FREE

FINAL

Lab:

Analyte	Value
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**TESTOSTERONE, FREE (2991-8)****88.9** Reference Range: 46.0-224.0 pg/mL

FINAL

(Note)

The concentration of free testosterone is derived from a mathematical model using total testosterone by LCMSMS, sex hormone binding globulin and albumin.

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.

MDF  
med fusion  
2501 South State Highway 121, Suite 1100  
Lewisville TX 75067  
972-966-7300  
Ithiel James L. Frame, MD, PhD

**LIPID PANEL, STANDARD**

FINAL

Lab:

Analyte	Value		
<b>CHOLESTEROL, TOTAL (2093-3)</b>	<b>151</b>	Reference Range: <200 mg/dL	FINAL
<b>HDL CHOLESTEROL (2085-9)</b>	<b>45</b>	Reference Range: > OR = 40 mg/dL	FINAL
<b>TRIGLYCERIDES (2571-8)</b>	<b>46</b>	Reference Range: <150 mg/dL	FINAL
<b>LDL-CHOLESTEROL (13457-7)</b>	<b>92</b>	mg/dL (calc)	FINAL
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 ( <a href="http://education.QuestDiagnostics.com/faq/FAQ164">http://education.QuestDiagnostics.com/faq/FAQ164</a> )			
<b>CHOL/HDL-C RATIO (9830-1)</b>	<b>3.4</b>	Reference Range: <5.0 (calc)	FINAL
<b>NON HDL CHOLESTEROL (43396-1)</b>	<b>106</b>	Reference Range: <130 mg/dL (calc)	FINAL
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.			

**THYROID PANEL WITH TSH**

FINAL

Lab:

Analyte	Value		
<b>TSH (3016-3)</b>	<b>1.73</b>	Reference Range: 0.40-4.50 mIU/L	FINAL

**THYROID PANEL**

FINAL

Lab:

Analyte	Value		
<b>T3 UPTAKE (3050-2)</b>	<b>32</b>	Reference Range: 22-35 %	FINAL
<b>T4 (THYROXINE), TOTAL (3026-2)</b>	<b>7.1</b>	Reference Range: 4.9-10.5 mcg/dL	FINAL
<b>FREE T4 INDEX (T7) (32215-6)</b>	<b>2.3</b>	Reference Range: 1.4-3.8	FINAL

**CBC (INCLUDES DIFF/PLT)**

FINAL

Lab:

Analyte	Value		
<b>WHITE BLOOD CELL COUNT</b> (6690-2)	<b>5.5</b>	Reference Range: 3.8-10.8 Thousand/uL	FINAL
<b>RED BLOOD CELL COUNT</b> (789-8)	<b>5.22</b>	Reference Range: 4.20-5.80 Million/uL	FINAL
<b>HEMOGLOBIN</b> (718-7)	<b>15.7</b>	Reference Range: 13.2-17.1 g/dL	FINAL
<b>HEMATOCRIT</b> (4544-3)	<b>46.9</b>	Reference Range: 38.5-50.0 %	FINAL
<b>MCV</b> (787-2)	<b>89.8</b>	Reference Range: 80.0-100.0 fL	FINAL
<b>MCH</b> (785-6)	<b>30.1</b>	Reference Range: 27.0-33.0 pg	FINAL
<b>MCHC</b> (786-4)	<b>33.5</b>	Reference Range: 32.0-36.0 g/dL	FINAL
<b>RDW</b> (788-0)	<b>13.1</b>	Reference Range: 11.0-15.0 %	FINAL
<b>PLATELET COUNT</b> (777-3)	<b>228</b>	Reference Range: 140-400 Thousand/uL	FINAL
<b>MPV</b> (776-5)	<b>10.9</b>	Reference Range: 7.5-12.5 fL	FINAL
<b>ABSOLUTE NEUTROPHILS</b> (751-8)	<b>2184</b>	Reference Range: 1500-7800 cells/uL	FINAL
<b>ABSOLUTE LYMPHOCYTES</b> (731-0)	<b>2365</b>	Reference Range: 850-3900 cells/uL	FINAL
<b>ABSOLUTE MONOCYTES</b> (742-7)	<b>556</b>	Reference Range: 200-950 cells/uL	FINAL
<b>ABSOLUTE EOSINOPHILS</b> (711-2)	<b>358</b>	Reference Range: 15-500 cells/uL	FINAL
<b>ABSOLUTE BASOPHILS</b> (704-7)	<b>39</b>	Reference Range: 0-200 cells/uL	FINAL
<b>NEUTROPHILS</b> (770-8)	<b>39.7</b>	%	FINAL
<b>LYMPHOCYTES</b> (736-9)	<b>43.0</b>	%	FINAL
<b>MONOCYTES</b> (5905-5)	<b>10.1</b>	%	FINAL
<b>EOSINOPHILS</b> (713-8)	<b>6.5</b>	%	FINAL
<b>BASOPHILS</b> (706-2)	<b>0.7</b>	%	FINAL

### FSH

FINAL

Lab:

Analyte	Value		
<b>FSH</b> (15067-2)	<b>4.1</b>	Reference Range: 1.4-12.8 mIU/mL	FINAL

### LH

FINAL

Lab:

Analyte	Value		
<b>LH</b> (10501-5)	<b>2.7</b>	Reference Range: 1.5-9.3 mIU/mL	FINAL

### TESTOSTERONE, TOTAL, MALES (ADULT), IA

FINAL

Lab:

Analyte	Value		
<b>TESTOSTERONE, TOTAL, MALES (ADULT), IA</b> (2986-8)	<b>656</b>	Reference Range: 250-827 ng/dL	FINAL

### ESTRADIOL

FINAL

Lab:

Analyte	Value		
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**ESTRADIOL (2243-4)****18** Reference Range: < OR = 39 pg/mL

FINAL

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.

**Performing Sites**

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**Key**

 Priority Out of Range  Out of Range  Pending Result  Preliminary Result  Final Result  Reissued Result

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