



**Specimen** CZ451097J  
**Requisition** 572100  
**Lab Ref No**
**Collected Date** 08/12/2022 07:17  
**Received Date** 08/12/2022 07:18

 Ultra Lab Tests, LLC  
 9237 E Via de Ventura, Suite 220  
 Scottsdale, AZ 85258  
[UltraLabTests.com](http://UltraLabTests.com)
 **Above Normal**  
 **Below Normal**

Result	Value	Reference Range	Lab
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## Cardiovascular Health

### Cholesterol & Triglycerides

CHOL/HDL-C RATIO	<b>2.6</b> Aug/2022	<5.0 (calc)	Z99
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CHOLESTEROL, TOTAL	<b>186</b> Aug/2022	<200 mg/dL	Z99
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LDL/HDL RATIO	<b>1.4</b> Aug/2022	(calc)	Z99
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**Comments**

Below average Risk:	<2.34
Average Risk:	2.35-4.12
Moderate Risk:	4.13-5.56
High Risk:	>5.57

NON HDL CHOLESTEROL	<b>114</b> Aug/2022	<130 mg/dL (calc)	Z99
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**Comments**

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.

TRIGLYCERIDES	<b>51</b> Aug/2022	<150 mg/dL	Z99
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### HDL Particles

HDL CHOLESTEROL	<b>72</b> Aug/2022	> OR = 50 mg/dL	Z99
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### LDL Particles

LDL-CHOLESTEROL	<b>101</b> Aug/2022	mg/dL (calc)	Z99
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**Comments**

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.

Result	Value	Reference Range	Lab
	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> )		

## Liver Health

### Liver Enzymes and Function Tests

CERULOPLASMIN	<b>21</b> Aug/2022	18-53 mg/dL	Z99
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## Blood Health

### Iron

% SATURATION	<b>29</b> Aug/2022	16-45 % (calc)	Z99
FERRITIN	<b>61</b> Aug/2022	16-232 ng/mL	Z99
IRON BINDING CAPACITY	<b>278</b> Aug/2022	250-450 mcg/dL (calc)	Z99
IRON, TOTAL	<b>82</b> Aug/2022	40-190 mcg/dL	Z99
TRANSFERRIN	<b>218</b> Aug/2022	188-341 mg/dL	Z99

### Platelets

PLATELET COUNT	<b>163</b> Aug/2022	140-400 Thousand/uL	Z99
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### Red Blood Cells

HEMATOCRIT	<b>42.8</b> Aug/2022	35.0-45.0 %	Z99
HEMOGLOBIN	<b>13.7</b> Aug/2022	11.7-15.5 g/dL	Z99
MCH	<b>29.1</b> Aug/2022	27.0-33.0 pg	Z99

Result	Value	Reference Range	Lab
MCHC	<b>32.0</b> Aug/2022	32.0-36.0 g/dL	Z99
MCV	<b>91.1</b> Aug/2022	80.0-100.0 fL	Z99
MPV	<b>10.5</b> Aug/2022	7.5-12.5 fL	Z99
RDW	<b>12.5</b> Aug/2022	11.0-15.0 %	Z99
RED BLOOD CELL COUNT	<b>4.70</b> Aug/2022	3.80-5.10 Million/uL	Z99

## White Blood Cells

ABSOLUTE BASOPHILS	<b>31</b> Aug/2022	0-200 cells/uL	Z99
ABSOLUTE EOSINOPHILS	<b>70</b> Aug/2022	15-500 cells/uL	Z99
ABSOLUTE LYMPHOCYTES	<b>1970</b> Aug/2022	850-3900 cells/uL	Z99
ABSOLUTE MONOCYTES	<b>371</b> Aug/2022	200-950 cells/uL	Z99
ABSOLUTE NEUTROPHILS	<b>1459 ↓</b> Aug/2022	1500-7800 cells/uL	Z99
BASOPHILS	<b>0.8</b> Aug/2022	%	Z99
EOSINOPHILS	<b>1.8</b> Aug/2022	%	Z99
LYMPHOCYTES	<b>50.5</b> Aug/2022	%	Z99
MONOCYTES	<b>9.5</b> Aug/2022	%	Z99
NEUTROPHILS	<b>37.4</b> Aug/2022	%	Z99
WHITE BLOOD CELL COUNT	<b>3.9</b> Aug/2022	3.8-10.8 Thousand/uL	Z99

## Vitamins, Minerals & Dietary Fatty Acids

### Vitamins

Result	Value	Reference Range	Lab
FOLATE, SERUM	<b>8.6</b> Aug/2022	ng/mL	Z99

Comments	Reference Range
	Low: <3.4 Borderline: 3.4-5.4 Normal: >5.4

VITAMIN B12	<b>357</b> Aug/2022	200-1100 pg/mL	Z99
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Comments	Reference Range
	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.

VITAMIN D, 25-OH, D2	<b>Pending</b> Aug/2022		Z4M
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VITAMIN D, 25-OH, D3	<b>Pending</b> Aug/2022		Z4M
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VITAMIN D, 25-OH, TOTAL	<b>Pending</b> Aug/2022		Z4M
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## Minerals

COPPER	<b>76</b> Aug/2022	70-175 mcg/dL	AMD
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Comments	Reference Range
	This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute Chantilly, VA. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

MAGNESIUM, RBC	<b>4.6</b> Aug/2022	4.0-6.4 mg/dL	AMD
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ZINC	<b>95</b> Aug/2022	60-130 mcg/dL	AMD
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Performing Laboratory Information

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