

Patient Information	Specimen Information	Client Information

COMMENTS: FASTING:NO

Test Name	In Range	Out Of Range	Reference Range	Lab
LIPID PANEL, STANDARD				
<b>CHOLESTEROL, TOTAL</b>		<b>227 H</b>	<200 mg/dL	KS
<b>HDL CHOLESTEROL</b>		<b>44 L</b>	> OR = 50 mg/dL	KS
<b>TRIGLYCERIDES</b>		<b>245 H</b>	<150 mg/dL	KS

If a non-fasting specimen was collected, consider repeat triglyceride testing on a fasting specimen if clinically indicated.  
 Jacobson et al. J. of Clin. Lipidol. 2015;9:129-169.

<b>LDL-CHOLESTEROL</b>		<b>143 H</b>	mg/dL (calc)	KS
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)

<b>CHOL/HDL C RATIO</b>		<b>5.2 H</b>	<5.0 (calc)	KS
<b>NON HDL CHOLESTEROL</b>		<b>183 H</b>	<130 mg/dL (calc)	KS

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.

COMPREHENSIVE METABOLIC PANEL				KS
GLUCOSE	92		65-139 mg/dL	

Non-fasting reference interval

UREA NITROGEN (BUN)	8		7-25 mg/dL	
CREATININE	0.80		0.50-1.05 mg/dL	
EGFR	83		> OR = 60 mL/min/1.73m <sup>2</sup>	
BUN/CREATININE RATIO	SEE NOTE:		6-22 (calc)	

Not Reported: BUN and Creatinine are within reference range.

SODIUM	139		135-146 mmol/L	
POTASSIUM	4.4		3.5-5.3 mmol/L	
CHLORIDE	105		98-110 mmol/L	
CARBON DIOXIDE	28		20-32 mmol/L	
CALCIUM	9.7		8.6-10.4 mg/dL	
PROTEIN, TOTAL	7.7		6.1-8.1 g/dL	
ALBUMIN	4.4		3.6-5.1 g/dL	
GLOBULIN	3.3		1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	1.3		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.4		0.2-1.2 mg/dL	

Patient Information	Specimen Information	Client Information

Test Name	In Range	Out Of Range	Reference Range	Lab
ALKALINE PHOSPHATASE	89		37-153 U/L	
AST	20		10-35 U/L	
ALT	19		6-29 U/L	
MAGNESIUM	2.1		1.5-2.5 mg/dL	KS
CBC (INCLUDES DIFF/PLT)				KS
WHITE BLOOD CELL COUNT	5.2		3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	4.68		3.80-5.10 Million/uL	
HEMOGLOBIN	11.9		11.7-15.5 g/dL	
HEMATOCRIT	36.9		35.0-45.0 %	
<b>MCV</b>		<b>78.8 L</b>	80.0-100.0 fL	
<b>MCH</b>		<b>25.4 L</b>	27.0-33.0 pg	
MCHC	32.2		32.0-36.0 g/dL	
RDW	14.5		11.0-15.0 %	
<b>PLATELET COUNT</b>		<b>431 H</b>	140-400 Thousand/uL	
MPV	9.6		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	2668		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	1986		850-3900 cells/uL	
ABSOLUTE MONOCYTES	354		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	140		15-500 cells/uL	
ABSOLUTE BASOPHILS	52		0-200 cells/uL	
NEUTROPHILS	51.3		%	
LYMPHOCYTES	38.2		%	
MONOCYTES	6.8		%	
EOSINOPHILS	2.7		%	
BASOPHILS	1.0		%	
VITAMIN B12/FOLATE, SERUM PANEL				KS
<b>VITAMIN B12</b>		<b>1287 H</b>	200-1100 pg/mL	
FOLATE, SERUM	14.1		ng/mL	
			Reference Range	
			Low: <3.4	
			Borderline: 3.4-5.4	
			Normal: >5.4	

Patient Information	Specimen Information	Client Information

**Endocrinology**

Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	36	30-100 ng/mL	KS
<p>Vitamin D Status                      25-OH Vitamin D:</p> <p>Deficiency:                                      &lt;20 ng/mL</p> <p>Insufficiency:                                      20 - 29 ng/mL</p> <p>Optimal:                                              &gt; or = 30 ng/mL</p> <p>For 25-OH Vitamin D testing on patients on D2-supplementation and patients for whom quantitation of D2 and D3 fractions is required, the QuestAssureD(TM) 25-OH VIT D, (D2,D3), LC/MS/MS is recommended: order code 92888 (patients &gt;2yrs).</p>			
<p>For additional information, please refer to <a href="http://education.QuestDiagnostics.com/faq/FAQ199">http://education.QuestDiagnostics.com/faq/FAQ199</a> (This link is being provided for informational/ educational purposes only.)</p>			
<p>Physician Comments:</p>			

**PERFORMING SITE:**

KS    QUEST DIAGNOSTICS LENEXA, 10101 RENNER BLVD, LENEXA, KS 66219-9752 Laboratory Director: THUY-LIEU VO,MD, CLIA: 17D0648226