



Patient Information		Specimen Information			Client Information		
LIPOPROTEIN (a)			360	313	<75	75-125	>125

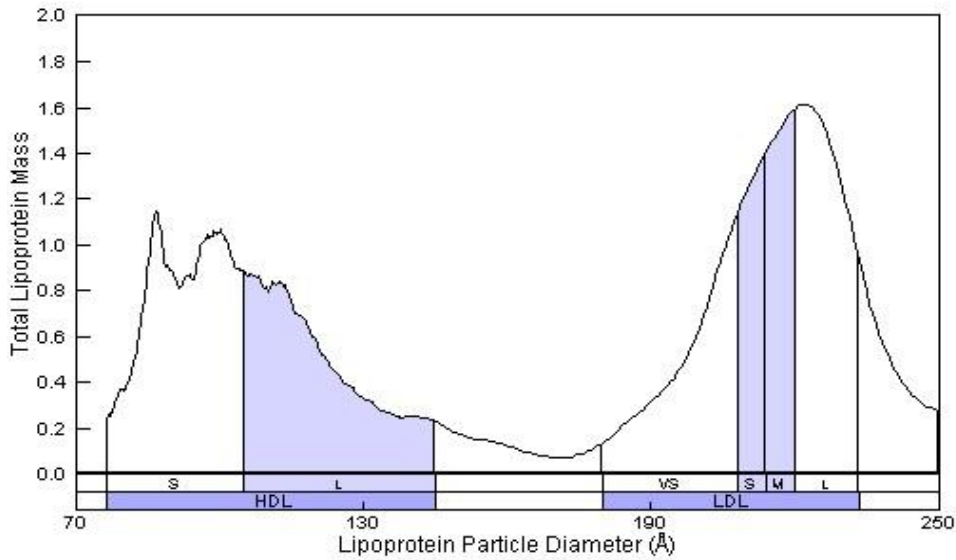
For details on reference ranges please refer to the reference range/comment section of the report.

4myheart Diet & Exercise Coaching Program: Need help achieving and maintaining an optimal weight? Managing stress? Trying to improve physical fitness levels? The 4myheart program provides support and personalized lifestyle guidance to help improve heart health. Please talk to your provider, visit 4myheart.com or call 1-800-432-7889 opt 2 to learn more.

Medical Information For Healthcare Providers: If you have any questions about any of the tests in our Cardio IQ offering, please call 1-800-432-7889 opt 3 to speak to a clinical liaison. For frequently asked questions, you can also visit us at <http://education.questdiagnostics.com/faq/FAQ134>

Health ID:

LIPID SUBCLASS DETAIL FROM ION MOBILITY



Test Name	Units	Result and Risk Category			Result from 02/23/2018	Risk Category Ranges		
		Optimal	Moderate	High		Optimal	Moderate	High
		Optimal	Moderate	High				



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Lipoprotein Subfractions

Lab: EZ

LDL PATTERN	Pattern	A	A	A	N/A	B
LDL PEAK SIZE	Angstrom	225.5	219.9	>222.9	222.9-217.4	<217.4

Reference Range/Comments

Analyte Name	Reference Range	Comments
CHOLESTEROL, TOTAL	<200 mg/dL	
HDL CHOLESTEROL	>40 mg/dL	
TRIGLYCERIDES	<150 mg/dL	
LDL-CHOLESTEROL	<100 mg/dL	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 For additional information, please refer to http://education.QuestDiagnostics.com/faq/FAQ164 (This link is being provided for informational/educational purposes only.)
CHOL/HDL-C RATIO	<5.0 calc	
NON-HDL CHOLESTEROL	<130 mg/dL (calc)	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.
LDL PARTICLE NUMBER	732-2035 nmol/L	Risk: Optimal <1138; Moderate 1138-1409; High >1409
LDL SMALL	85-473 nmol/L	Risk: Optimal <142; Moderate 142-219; High >219
LDL MEDIUM	122-498 nmol/L	Risk: Optimal <215; Moderate 215-301; High >301
HDL LARGE	3382-9376 nmol/L	Risk: Optimal >6729; Moderate 6729-5353; High <5353
LDL PATTERN	A Pattern	Risk: Optimal Pattern A; High Pattern B



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LDL PEAK SIZE	> OR = 217.4 Angstrom	Risk: Optimal >222.9; Moderate 222.9-217.4; High <217.4 Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on adult U.S. reference population. Association between lipoprotein subfractions and cardiovascular events is based on Musunuru et al. ATVB. 2009;29:1975. 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.	
APOLIPOPROTEIN B	52-109 mg/dL	Risk: Optimal < 80 mg/dL; Moderate 80-119 mg/dL; High > or = 120 mg/dL Cardiovascular event risk category cut points (optimal, moderate, high) are based on National Lipid Association recommendations - Davidson et al. J Clin Lipidol. 2011;5:338	
LIPOPROTEIN (a)	<75 nmol/L	Risk: Optimal < 75 nmol/L; Moderate 75-125 nmol/L; High > 125 nmol/L Cardiovascular event risk category cut points (optimal, moderate, high) are based on Marcovina et al. Clin Chem. 2003;49:1785 and Nordestgaard et al. European Heart J. 2010;31:2844 (results of meta-analysis and expert panel recommendations).	

PERFORMING SITE:

EN QUEST DIAGNOSTICS-WEST HILLS, 8401 FALLBROOK AVENUE, WEST HILLS, CA 91304-3226 Laboratory Director: TAB TOOCHINDA,MD, CLIA: 05D0642827
 EZ QUEST DIAGNOSTICS/NICHOLS SJ, 33608 ORTEGA HWY, SAN JUAN CAPISTRANO, CA 92675-2042 Laboratory Director: IRINA MARAMICA,MD,PHD,MBA, CLIA: 05D0643352
 UL QUEST DIAGNOSTICS SACRAMENTO, 3714 NORTHGATE BLVD, SACRAMENTO, CA 95834-1617 Laboratory Director: M. ROSE AKIN, M.D., FCAP, CLIA: 05D0644209