



Understanding the NMR LipoProfile® test Report

NMR LipoProfile test

The NMR LipoProfile test provides a direct measure of the number of low density lipoprotein particles (LDL-P). Results can be used with other lipid measurements and clinical evaluation to aid in the management of lipoprotein disorders associated with cardiovascular disease.

Lipids

This section includes information in a traditional lipid panel (LDL-C, HDL-C, Triglycerides, and Total Cholesterol).

Historical Reporting *New!

This section includes up to three prior LDL-P and LDL-C test results for each patient. When completing the requisition, the following information must be included in order for this section to be populated: Client ID, Patient ID, Patient Last Name, and Date of Birth. It must also match information provided on previous requisitions.

The NMR LipoProfile® test may be covered by one or more issued or pending patents, including U.S. Patent Nos. 5,343,389; 6,518,069; 6,576,471; 6,653,140; and 7,243,030. CLIA:34D0952253

LipoScience, Inc.
2500 Sumner Boulevard
Raleigh, NC 27616
877-547-6837
www.liposcience.com

Page 1 of 1

Patient Name: _____ Sex: _____ Age: _____ Clinician: _____

Patient ID: _____ Birth Date: _____ Accession Number: _____ Client Name and Address: _____

Client Name: _____ Client #/Route #: _____
Address 1: _____
Address 2: _____
City, State: _____ Zip: _____
Phone: _____ Fax: _____

Date Collected: _____ Date Received: _____ Report Date and Time: _____ Requisition Number: _____ Fasting Status: _____

NMR LipoProfile® test

	nmol/L	Reference Range ¹				
		Percentile ¹	20th	50th	80th	95th
LDL-P (LDL Particle Number)	1012	Low	Moderate	Borderline-High	High	Very High
		<1000	1000-1299	1300-1599	1600-2000	>2000

Lipids

LDL-C (calculated)	mg/dL	Optimal	Near or above optimal	Borderline-High	High	Very High
		<100	100-129	130-159	160-189	≥190
HDL-C	mg/dL			Triglycerides	mg/dL	Total Cholesterol
	45			140		171
	Desirable ≥ 40			Desirable < 150		Desirable < 200

Historical Reporting

LDL-P

06/10/10 (1012) 02/20/10 (1400) 11/10/09 (2000)

LDL-C

06/10/10 (95) 02/20/10 (100) 11/10/09 (120)

1. Reference population comprises 5,362 men and women not on lipid medication enrolled in the Multi-Ethnic Study of Atherosclerosis (MESA). Mora et al. Atherosclerosis 2007

91-001-00R1.0
© 2009 LipoScience, Inc. All rights reserved

Understanding the Particle Concentration and Size Report

LDL and HDL Particles

- This section includes the total number of HDL Particles (HDL-P), the number of small LDL particles, and LDL Size. A relative estimate of CVD risk is indicated by an arrow on the scale to the right of each result.
- HDL-P is the total number of HDL particles. HDL-P has been shown to be more strongly related to atherosclerosis and future CVD than HDL-C.¹
- Many physicians use small LDL-P and LDL size to guide therapy. Small LDL-P and LDL size are not independent predictors of CVD risk.

Lipoprotein Markers Associated with Insulin Resistance and Diabetes Risk

This section includes the six lipoprotein markers associated with insulin resistance and diabetes risk, and are included in the calculation for the LP-IR score.

Lipoprotein Insulin Resistance Score (LP-IR) *New!

The LP-IR score assesses the patient's insulin resistance level and diabetes risk. This score (0-100) is derived using the results from the six lipoprotein markers above. Therapeutic lifestyle changes may reduce the score.^{2,3}

The NMR LipoProfile® test may be covered by one or more issued or pending patents, including U.S. Patent Nos. 5,343,389; 6,518,069; 6,576,471; 6,653,140; and 7,243,030.
CLIA:34D0952253

LIPOSCIENCE

LipoScience, Inc.
2500 Sumner Boulevard
Raleigh, NC 27616
877-547-6837
www.liposcience.com

Page 1 of 1

Patient Name			Sex	Age	Clinician	
Patient ID			Birth Date	Accession Number	Client Name and Address	
Date Collected			Date Received	Report Date and Time	Requisition Number	Fasting Status

PARTICLE CONCENTRATION AND SIZE

		Lower CVD Risk	Higher CVD Risk
Percentile in Reference Population ³			
LDL and HDL Particles			
HDL-P (total)	µmol/L 28.1	high 75th 34.9 50th 30.5 25th 26.7 low	
SMALL LDL-P	nmol/L 830	low 25th 117 50th 527 75th 839 high	
LDL SIZE	nm 20.4	Large (Pattern A) 23.0 20.6	Small (Pattern B) 20.5 19.0
Small LDL-P and LDL size are associated with CVD risk, but not after LDL-P is taken into account.			
Lipoprotein Markers Associated with Insulin Resistance and Diabetes Risk^{1,2}		Insulin Sensitive	Insulin Resistant
Percentile in Reference Population ³			
LARGE VLDL-P	nmol/L 8.2	low 25th 0.9 50th 2.7 75th 6.9 high	
SMALL LDL-P	nmol/L 830	low 25th 117 50th 527 75th 839 high	
LARGE HDL-P	µmol/L 2.7	high 75th 7.3 50th 4.8 25th 3.1 low	
VLDL SIZE	nm 50.4	small 25th 42.4 50th 46.6 75th 52.5 large	
LDL SIZE	nm 20.4	large 75th 21.2 50th 20.8 25th 20.4 small	
HDL SIZE	nm 8.7	large 75th 9.6 50th 9.2 25th 8.9 small	
Insulin Resistance Score			
LP-IR SCORE*	0-100 84	insulin sensitive 25th 27 50th 45 75th 63 insulin resistant	

*The LP-IR Score combines the information from the above 6 markers to give improved assessment of insulin resistance and diabetes risk.

These laboratory assays, validated by LipoScience, have not been cleared by the US Food and Drug Administration. The clinical utility of these laboratory values has not been fully established.

1. Garvey WT, et al. *Diabetes*. 2003;532:453-462. 2. Goff DC, et al. *Metabolism*. 2005;54:264-270. 3. Reference population comprises 4,588 men and women not on lipid medication enrolled in the Multi-Ethnic Study of Atherosclerosis (MESA). 91-002-00R1.0 © 2009 LipoScience, Inc. All rights reserved

1. Otvos et al. *Circulation*. 2006;113:1556-1563 2. Genuth and Kahn. *Diabetes Care*. 2008;31:1093-1096
3. *Insulin Resistance and Pre-Diabetes*. 2008. U.S. Department of Health & Human Services. NIH Publication No. 09-4893. Available from www.diabetes.niddk.nih.gov.