

# **Specimen Details**

Date collected: 10/18/2018 0928 Local

**Date received:** 10/18/2018 **Date entered:** 10/18/2018

**Date reported:** 10/25/2018 1611 ET

#### **General Comments & Additional Information**

Total Volume: Not Provided Fasting: Yes

### **Ordered Items**

NMR LipoProfile; CBC With Differential/Platelet; Comp. Metabolic Panel (14); Lipid Panel; Thyroid Panel; Vitamin B12 and Folate; Insulin and C-Peptide, Serum; Hemoglobin A1c; TSH; Estradiol; IGF-1; Reverse T3, Serum; Fructosamine; Lipoprotein (a); C-Reactive Protein, Cardiac: Lp-PLA2 Activity; Tumor Necrosis Factor-Alpha; Interleukin-6, Serum; Homocyst(e)ine, Plasma; Uric Acid; GGT; Growth Hormone, Serum; Ferritin, Serum; Glucagon, Plasma; Triiodothyronine (T3), Free; Fatty Acids, Free (Nonester); Venipuncture

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
NMR LipoProfile					
LDL Particle Number					01
LDL-P	634		nmol/L Low Moderate Borderline-H: High Very High	<1000 < 1000 1000 - 1299 igh 1300 - 1599 1600 - 2000 > 2000	01
Lipids			very mign	> 2000	01
LDL-C	61		mg/dL Optimal Above optimal Borderline High Very high	0 - 109 < 100 l 100 - 129 130 - 159 160 - 189 > 189	01
Comment: LDL-C is inaccurate i	f natient ic r	non-fac	stina		01
HDL-C	53	ion-la	mg/dL	>39	01
Triglycerides	38		mg/dL	0 - 89	01
Cholesterol, Total	122		mg/dL	100 - 169	01
LDL and HDL Particles	122		mg/ di	100 109	01
HDL-P (Total)	25.9	Low	umol/L	>=30.5	01
Small LDL-P	140		nmol/L	<=527	01
LDL Size	21.0		nm	>20.5	01
** I	NTERPRETATIVE	INFORM	/ATION**		

PARTICLE CONCENTRATION AND SIZE

<--Lower CVD Risk Higher CVD Risk--> LDL AND HDL PARTICLES Percentile in Reference Population HDL-P (total) 75th 50th 25th High Low

>34.9 34.9 30.5 26.7 <26.7 Small LDL-P Low 25th 50th 75th High

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TESTS		RESULT	FLAG		REFERENCE	INTERVAL	LAB
LDL Size	<-Targe (F	<117 1 Pattern A)-	17 527 S <-Smal	839 Il (Patter	>839 m B)->		
IDI BIZC				20.5	19.0		
Comment:	_				_	_	01
Small LDL-P a LDL-P is take			ciated with	n CVD risk	, but not	after	
These assays			neir perfoi	rmance cha	racterist	ics	
determined by	LipoScien	ce. These	assays have	e not been	cleared b		
US Food and D					of these		
laboratory va		not been f	ully establ	lished.			
Insulin Resistand	e Score						01
LP-IR Score		<25			<=45		01
INSULIN RESIS	n Sensitiv		in Resistar	nt >			
		n Referenc					
Insulin Resis							
LP-IR Score	Low 25t <27		75th Hig	-			
Comment:	<27 27	45	03 >03	•			01
LP-IR Score i	s inaccura	te if pati	ent is non-	-fasting.			ΟŢ
The LP-IR sco					has been		
associated wi							
used as one o LP-IR score l							
Drug Administ		e has hot.	Jeen Cleare	ed by the	us rood at	.1 <b>u</b>	
_							
CBC With Different	ial/Platel						
WBC		5.8		•	3.4		02
RBC		4.53		•	3.77		02
Hemoglobin		13.3		g/dL		- 15.9	02
Hematocrit		40.4		%		- 46.6	02
MCV		89		fL	79		02
MCH		29.4		рg		- 33.0	02
MCHC		32.9		g/dL		- 35.7	02
RDW		13.8		%		- 15.4	02
Platelets		237		x10E3/uI		- 379	02
Neutrophils		59		%	Not E		02
Lymphs		32		%	Not E	stab.	02
Monocytes		7		%	Not E	stab.	02
Eos		1		%	Not E	stab.	02
Basos		1		%	Not E	stab.	02
Neutrophils (Abso	lute)	3.4		x10E3/uI	1.4	- 7.0	02
Lymphs (Absolute)		1.9		x10E3/uI		- 3.1	02
Monocytes (Absolut	e)	0.4		x10E3/uI	0.1	- 0.9	02
Eos (Absolute)		0.1		x10E3/uI	0.0	- 0.4	02
Baso (Absolute)		0.0		x10E3/uI	0.0	- 0.3	02

**Patient ID:** 

TESTS	RESULT	FLAG	UNITS REI	FERENCE INTERVAL	LAB
Immature Granulocytes	0		%	Not Estab.	02
Immature Grans (Abs)	0.0		x10E3/uL	0.0 - 0.1	02
			,		
Comp. Metabolic Panel (14)	0.7		/ 3-		
Glucose	87		mg/dL	65 - 99	02
BUN	15		mg/dL	5 - 18	02
Creatinine eGFR If NonAfricn Am	0.78		mg/dL	0.57 - 1.00	02
Unable to calculate GFR.	Age and/c	r sex	not provided on	>59 r age <18 years	
eGFR If Africn Am				>59	
Unable to calculate GFR. old.	Age and/o	r sex	not provided or		
BUN/Creatinine Ratio	19			10 - 22	
Sodium	139		${\tt mmol/L}$	134 - 144	02
Potassium	4.2		${\tt mmol/L}$	3.5 - 5.2	02
Chloride	109	High	${\tt mmol/L}$	96 - 106	02
Carbon Dioxide, Total	18	Low	${\tt mmol/L}$	20 - 29	02
Calcium	9.1		mg/dL	8.9 - 10.4	02
Protein, Total	6.4		g/dL	6.0 - 8.5	02
Albumin	4.2		g/dL	3.5 - 5.5	02
Globulin, Total	2.2		g/dL	1.5 - 4.5	
A/G Ratio	1.9			1.2 - 2.2	
Bilirubin, Total	0.5		mg/dL	0.0 - 1.2	02
Alkaline Phosphatase	69		IU/L	49 - 108	02
AST (SGOT)	14		IU/L	0 - 40	02
ALT (SGPT)	15		IU/L	0 - 24	02
Lipid Panel					
Cholesterol, Total	125		mg/dL	100 - 169	02
Triglycerides	37		mg/dL	0 - 89	02
HDL Cholesterol	57		mg/dL	>39	02
VLDL Cholesterol Cal	7		mg/dL	5 - 40	
LDL Cholesterol Calc	61		mg/dL	0 - 109	
mhid Donal					
Thyroid Panel	<i>C C</i>		/ ат	4 5 10 0	0.0
Thyroxine (T4)	6.6		ug/dL	4.5 - 12.0	02
T3 Uptake	28		%	23 - 35	02
Free Thyroxine Index	1.8			1.2 - 4.9	
Vitamin B12 and Folate					
Vitamin B12	716		pg/mL	232 - 1245	02
Folate (Folic Acid), Serum	8.7		ng/mL	>3.0	02
Note:					02
A serum folate concentra	tion of les	s thai	n 3.1 ng/mL is		

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB		
considered to represent clinical deficiency.							
Insulin and C-Peptide, Serum							
Insulin	13.4		uIU/mL	2.6 - 24.9	02		
C-Peptide, Serum	2.6		ng/mL	1.1 - 4.4	02		
C-Peptide reference inte	rval is to	r fasting p	patients.				
Hemoglobin A1c							
Hemoglobin Alc	4.9		%	4.8 - 5.6	02		
Please Note:					02		
Prediabetes: 5.	7 - 6.4						
Diabetes: >6.4 Glycemic contro	l for adul	ts with dia	abetes: <	7.0			
		00 11 011 011					
TSH	1.650		uIU/mL	0.450 - 4.500	02		
	0.5		,				
Estradiol	26.9	Adult Fema	pg/mL		02		
			lar phase	12.5 - 166.0			
			on phase				
			phase opausal	43.8 - 211.0 <6.0 - 54.7			
		Pregnancy	Spaasai	31.7			
			mester				
Roche ECLIA methodology		GITIS (I	10 years)	6.0 - 27.0			
1.00110 20211 11.0011011010101							
IGF-1							
Insulin-Like Growth Factor I AGE	389 FEMALE		ng/mL AGE	FEMALE	01		
<pre></pre>	18 - 126		11 ye				
1 year	20 - 132		12 ye	ars 105 - 499			
2 years			13 ye				
3 years 4 years			14 ye 15 ye	ars 123 - 552 ars 127 - 554			
5 years	36 - 214		16 ye	ars 128 - 542			
	42 - 240			ars 125 - 517			
7 years 8 years	49 - 267 57 - 305		18 ye 19 ye	ars 121 - 486 ars 114 - 451			
9 years	67 - 349		20 ye				
10 years	80 - 400						
Reverse T3, Serum	15.3		ng/dL	9.2 - 24.1	01		
noverbe 13, berum	13.3		119/411	9.2 - 24.1	OΙ		
Fructosamine	230		umol/L	0 - 285	01		
Published reference inte							
between age 20 and 60 is 205 - 285 umol/L and in a poorly controlled diabetic population is 228 - 563 umol/L with a							
mean of 396 umol/L.							

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TESTS	RESULT	FLAG UNITS	REFERENCE INTERVAL	LAB				
Lipoprotein (a) Note:	3 Values greate indicate an i	nmol/I r than or equal t ndependent risk f	<75 o 75 nmol/L may actor for CHD,	01				
	but must be evaluated with caution when applied to non-Caucasian populations due to the influence of genetic factors on Lp(a) across ethnicities.							
C-Reactive Protein, Cardia		mg/L sk for Future Car Low Average High	0.00 - 3.00 diovascular Event <1.00 1.00 - 3.00 >3.00	02				
Lp-PLA2 Activity	151	nmol/min Reduced Ris Increased R	k <225	01				
Tumor Necrosis Factor-Alpha								
Tumor Necrosis Factor-Alph Comment:	na 0.8	pg/mL	0.0 - 2.2	01 01				
Results of this test are labeled for research purposes only by the assay's manufacturer. The performance characteristics of this assay have not been established by the manufacturer. The result should not be used for treatment or for diagnostic purposes without confirmation of the diagnosis by another medically established diagnostic product or procedure. The performance characteristics were determined by LabCorp.								
Interleukin-6, Serum <0.7 pg/mL 0.0 - 15.5 Results for this test are for research purposes only by the assay's manufacturer. The performance characteristics of this product have not been established. Results should not be used as a diagnostic procedure without confirmation of the diagnosis by another medically established diagnostic product or procedure.								
Homocyst(e)ine, Plasma	6.0	umol/I	0.0 - 15.0	02				
Uric Acid								
Uric Acid	3.6	mg/dL	2.4 - 6.3	02				
Please Note:	Please Note: 02 Therapeutic target for gout patients: <6.0							
GGT	8	IU/L	0 - 60	02				
Growth Hormone, Serum	5.8	ng/mL	0.0 - 10.0	01				
Ferritin, Serum	26	ng/mL	15 - 77	02				
Glucagon, Plasma								

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T	ESTS	RESULT	FLAG	UNITS RE	FERENCE INTERVAL	LAB	
Glucagon, P	lasma	32	Low	pg/mL	50 - 150	01	
Comment:  Results of this test are labeled for research purposes only by the assay's manufacturer. The performance characteristics of this assay have not been established by the manufacturer. The result should not be used for treatment or for diagnostic purposes without confirmation of the diagnosis by another medically established diagnostic product or procedure. The performance characteristics were determined by LabCorp.							
Triiodothyro	nine (T3), Free	3.6		pg/mL	2.3 - 5.0	02	
Fatty Acids,	Free (Nonester)	0.5		mEq/L	0.1 - 0.6	01	
01 BN	LabCorp Burlington 1447 York Court, Burlington	n NC 27215-3361	1	Dir: William F	Hancock, MD		
02 PDLCA	LabCorp Phoenix 5005 S 40th Street Ste 120			Dir: Earle Col	lum, MD		

For inquiries, the physician may contact Branch: 888-522-2677 Lab: 800-762-4344