NAME CHN Example 1 REPORT DATE 08/11/2018 APPLICATION DATE

 Test Liposcale®
 Lipidic Contour

 Liposcale Test is an advanced lipoprotein analysis performed by Nuclear Magnetic Resonance (NMR) to quantify particle size, lipid content (cholesterol and triglycerides) and particle number of lipoprotein classes VLDL, LDL and HDL; as well as the concentration of their big, medium and small subclasses.
 Lipidic Contour

PARAMETER	RESULT	RECOMMENDED VALUE	
Lipids ¹		Secondary prevention	Primary prevention
total cholesterol	232 mg/dL		< 200
LDL CHOLESTEROL ²	150 mg/dL	< 70	< 130
HDL CHOLESTEROL	76 mg/dL		> ₃ 340 ♀50
TRIGLYCERIDES	51 mg/dL		< 150
	6 mg/dL		< 30
NO-HDL CHOLESTEROL	156 mg/dL	< 100	< 160
Particle number			2
LDL PARTICLES	1028 nmol/L	< 600	< 1000
ldl particles (small)	477 nmol/L	< 300	< 500
HDL PARTICLES (MEDIUM)	10.6 µmol/L		> 8.2
VLDL PARTICLES	11 nmol/L		< 70

LDL PARTICLES	21.33 nm	> 20.91
HDL PARTICLES	8.22 nm	> 8.21

Clinical outcome

Altered lipoprotein parameters relevant for clinical diagnosis (see extended lipid panel in the following page):

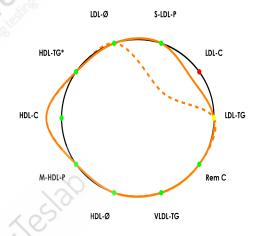
- Increased levels of LDL cholesterol

- Large VLDL particle size

- Increased levels of LDL triglycerides

- Increased levels of total, large and medium LDL particles

¹All parameters have been determined by NMR spectroscopy. There may be variability when compared to other analytical methods. ²The LDL cholesterol is calculated in a direct way and does not include the IDL cholesterol



☑ info@biosferteslab.com www.biosferteslab.com LDL-TG LDL Triglyceride LDL-C LDL Cholesterol S-LDL-P Small LDL particles LDL-Ø LDL particle size HDL-C HDL Cholesterol HDL-TG* Ratio of HDL Triglycerides/HDL Cholesterol M-HDL-P Medium HDL particles HDL-Ø HDL particle size VLDL-TG VLDL Triglycerides Rem C Remnant cholestero Primary prevention Secondary prevention

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Lipidic Contour interpretation

Simulation of lipidic risk factor in arterial cross section: Orange contour represents the patient's profile with respect to values from a general population sample of 6000 subjects, represented by a black circle. The orange discontinuous contour represents high risk high risk patients (secondary prevention). The area defined by the patient's lipidic contour decreases when its lipidic profile is associated with higher cardiovascular risk (i.e. values higher than reference population's recommended value for VLDL-C, VLDL-TG, VLDL-P, LDL-C, LDL-TG, S-LDL-P, HDL-TG variables; or lower than the reference population's recommended value for LDL-Ø, HDL-Ø and M-HDL-P variables).

Variables contributing to a decrease in the lipidic contour area are marked in red, while variables that contribute to an increase in it are marked in green. Variables whose values are close to the reference population's recommended value, according to the classification of variables mentioned above, appear in yellow.

*The HDL triglycerides/HDL cholesterol ratio provides more information about the content of HDL triglycerides when the number of HDL particles is high.

	BiosferTeslab
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> 20.91

> 8.21

19*

6

42.39*

21.33

8.22

PARAMETER	RESULT	RECOMMENDE VALUE
CHOLESTEROL		
VLDL-C (mg/dL)	<]	< 22
IDL-C (mg/dL)	5	< 9
LDL-C (mg/dL)	150*	< 130
HDL-C (mg/dL)	76	>50 ♀ - >40 。
REMNANT-C (mg/dL)	6	< 30
NO-HDL-C (mg/dL)	156	< 160
VLDL-TG (mg/dL)	19	< 98
IDL-TG (mg/dL)	7	< 12

LDL-TG (mg/dL)

HDL-TG (mg/dL)

PARTICLE SIZE

VLDL-Ø (nm)

LDL-Ø (nm)

HDL-Ø (nm)

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RECOMMENDED	PERC	ENTILES OF 1	THE		
VALUE	REFERE	NCE POPUL	ATION		
	25%	50%	75%	S	
< 22	6	11	170		
< 9	7	9	13		
< 130	110	130	150		
>50 ♀ - >40 ♂	48	56	64	1	
< 30	14	21	30		
< 160	130	150	180		
	25%	50%	75%		
< 98	39	54	78	K	
< 12	8	10	13	O	
< 19	12	15	19	34	
< 12	9	12	15		
	25%	50%	75%		
42.03 - 42.36	42.06	42.21	42.36		

21.11

8.26

21.29

8.31

2 al			7.30			
PARAMETER	RESULT	RECOMMENDED	PERCENTILES OF THE REFERENCE POPULATION			
PARTICLE NUMBER			25%	50%	75%	
VLDL-P (nmol/L)	11	< 70	27	38	56	
Large (L-VLDL-P) (nmol/L)	0.26	< 1.62	0.73	0.99	1.35	
Medium (M-VLDL-P) (nmol/L)	1.65	< 7.51	3.04	4.28	6.08	
Small (S-VLDL-P) (nmol/L)	9	< 61	23	32	49	
LDL-P (nmol/L)	1028*	< 1000	800	930	1070	
Large (L-LDL-P) (nmol/L)	162*	< 140	120	140	160	
Medium (M-LDL-P) (nmol/L)	389*	< 290	220	290	360	
Small (S-LDL-P) (nmol/L)	477	< 500	430	(490	560	
HDL-P (µmol/L)	35	> 24	24	28	32	
Large (L-HDL-P) (µmol/L)	0.29	> 0.24	0.25	0.28	0.32	
Medium (M-HDL-P) (µmol/L)	10.6	> 8.2	8,5	9.7	11	
Small (S-HDL-P) (µmol/L)	24	> 15	15	18	21	

Reference population data has been generated with 6000 subjects, men and women of different ages (15 to 85 years old). *Higher/lower than the reference population

Percentiles in reference population are represented in bars. Those variables clearly associated with CVD risk appear in a colour bar: red indicates increased risk whereas green indicates lower risk. Alternatively, variables in which CVD relation has not been clearly established appear in a grey bar.