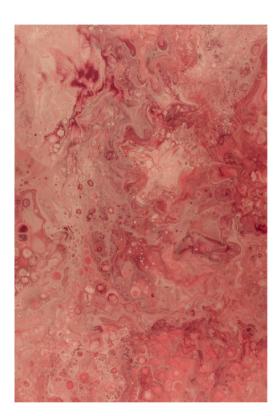
Serum & plasma



Shipping requirements

Specimen: serum or plasma

Volume: 250 μL (human); 50 μL (animal)

Conservation: samples frozen at -80°C

Metabolomics Services

Metabolomic Platform

Advanced technology

Nuclear Magnetic Resonance (NMR) is a valuable tool for studying the metabolic profile of an individual.

Robust and reproducible results

Results are reported in quantitative values and can be compared with different studies over time.

Quick analysis

Fully automated technology platform providing rapid analysis of up to 200 samples in one day.

The added value we offer

Quality results

Biosfer Teslab is ISO 9001 and ISO 13485 certified and CE marked for characterizing blood lipoproteins.

Experience

Our research team will help you to interpret your data. We are closely involved in every project.

Data analysis

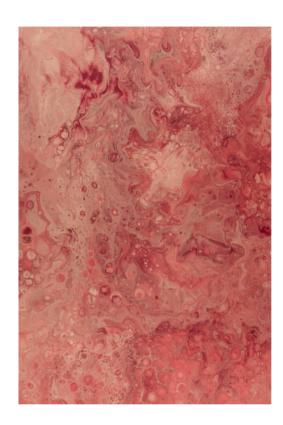
We have population databases that can be used to compare normality values. We participate in the creation of figures.

Applications

- Identification of biomarkers
- ► Epidemiological studies
- Pharmacological studies
- Nutritional studies
- Disease prediction and prevention
- Disease diagnosis
- Clinical trials
- Cardiovascular risk assessment



Serum & plasma



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Lipoproteins

Cholesterol

Total cholesterol
VLDL cholesterol
IDL cholesterol
LDL cholesterol
HDL cholesterol
Remnant cholesterol
Non-HDL cholesterol

Triglycerides

Total triglycerides VLDL triglycerides IDL triglycerides LDL triglycerides HDL triglycerides

VLDL lipoprotein particle number

Large VLDL particle number Medium VLDL particle number Small VLDL particle number

LDL lipoprotein particle number

Large LDL particle number Medium LDL particle number Small LDL particle number

HDL lipoprotein particle number

Large HDL particle number Medium HDL particle number Small HDL particle number

Glycoproteins

Inflammation

NMR signal Glyc-A NMR signal Glyc-B NMR signal Glyc-F Ratio H/W Glyc-A Ratio H/W Glyc-A

Low molecular weight metabolites Lipids

Glucose metabolism **Aminoacids** Alanine Glucose Glutamate Glycerol Glutamine Lactate Glycine Pyruvate Histidine **Renal function** Isoleucine Leucine Creatine Proline Creatinine Threonine Tyrosine **Ketone bodies** Valine Acetate Acetone

3-Hydroxyisobutyrate

Fatty acids and saturation

Particle size

VLDL size

LDL size

HDL size

Arachidonic acid + Eicosapentaenoic acid (ARA+EPA) Docosahexaenoic acid (DHA) Linoleic acid (LA) Polyunsaturated fatty acids (PUFAs) Saturated fatty acids (SFAs) ω -3 fatty acids ω -6 + ω -7 fatty acids

ω-9 fatty acids

Cholesterol

Esterified cholesterol Free cholesterol Total cholesterol

Glycerides & phospholipids

Lysophosphatidylcholine (LPC) Phosphatidylcholine (PC) Phosphoglycerides Sphingomyelins (SM)

