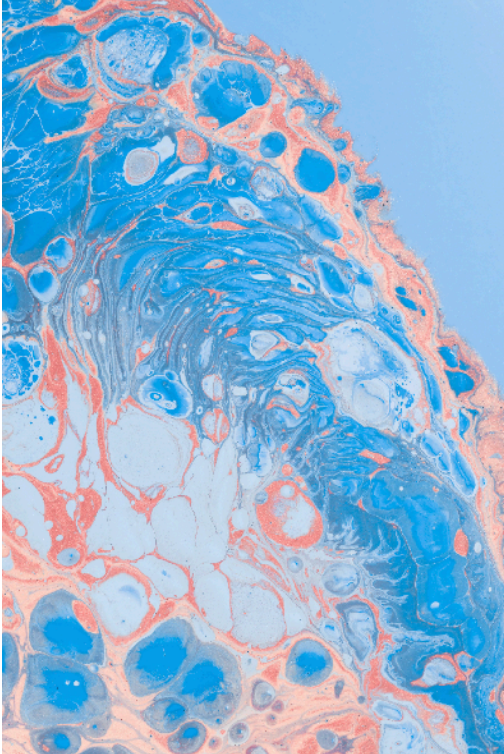


Cells & tissues



Shipping requirements

Specimen: tissues / cell culture / cell media

Tissues: 25-50 mg pulverized dried tissue

Cell cultures: 5-10 million cells

Cell media: 200 µL

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.

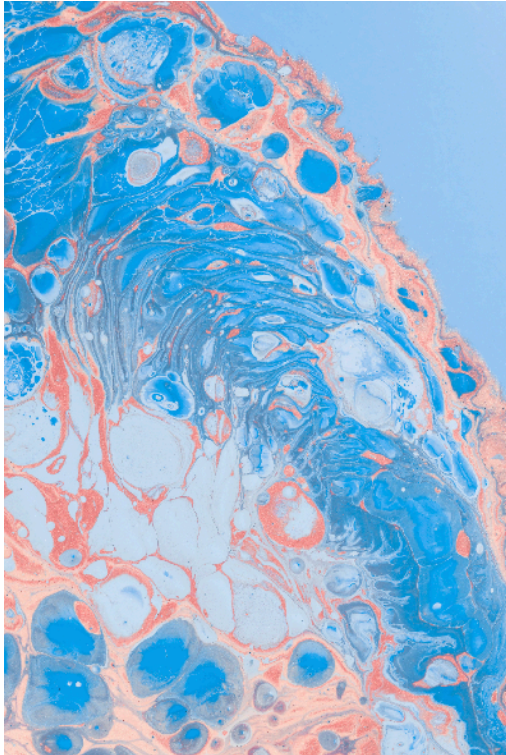
Data analysis

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

Cells & tissues



Shipping requirements

Specimen: tissues / cell culture / cell media

Tissues: 25-50 mg pulverized dried tissue

Cell cultures: 5-10 million cells

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Cell culture *

Amino acids

Alanine
Glutamate
Glutamine
Glycine
Histidine
Isoleucine
Leucine
Lysine
Phenylalanine
Tyrosine
Valine

Glucose metabolism

Fumarate
Glucose
Lactate
Myo-inositol
NAD+

Purine metabolism

Adenosine
ADP
AMP
ATP
Inosine

Pyrimidine metabolism

UDPg
Uridine

Others

Acetate
Creatine
Cholines
Glutathione
Formate
O-phosphocholine
sn-3-glycerophosphocholine
1-Methyl nicotinate

Tissues *

Amino acids

Alanine
Glutamate
Glutamine
Glycine
Histidine
Isoleucine
Leucine
Lysine
Methionine
Phenylalanine
Taurine
Tyrosine
Valine

Glucose Metabolism

Fumarate
Glucose
Lactate
Pyruvate
Succinate

Others

ADP
AMP
ATP
Cholines
Creatine
Creatinine
NAD

Ketone bodies

Acetate
3-Hydroxybutyrate

Cholesterol

Esterified cholesterol
Free cholesterol
Total cholesterol

Fatty acids and saturation

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

Glycerides and phospholipids

Lysophosphatidylcholine (LPC)
Phosphatidylcholine (PC)
Phosphatidylethanolamine (PE)
Phosphatidylinositol
Phosphoglycerides
Plasmalogen
Sphingomyelins (SM)
Triglycerides

* These lists show an example of metabolites present in cell cultures and liver tissue. The list of metabolites analyzed will vary depending on the type of tissue and cell line.