Feces

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

Shipping requirements

Specimen: fecal samples

Volume: 15-20 mg dry weight

Conservation: samples frozen at -80ºC

BiosferTeslab
Advancing testing

Feces

Low molecular weight metabolites *

Short chain fatty acids

Acetate
Butyrate
Caprylate
Isobutyrate
Propionate
Valerate

Amino acids

Alanine
Alloisoleucine
Asparagine
Aspartate
Glutamate
Glycine
Isoleucine
Leucine
Lysine
Methionine
Phenylalanine
Threonine
Tryptophan
Tyrosine
Valine

Microbial metabolism

Dimethylamine
Methylamine
Phenylacetate
3-Hydroxyisobutyrate

Energy metabolism

Glucose
Glycerol
Malonate
Succinate

Nucleotide metabolism

Hypoxanthine
Inosine
Sarcosine
Uracil
Uridine
Xanthine
2-Deoxyisonine
3-Methylxanthine

Lipids *

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 & phospholipids

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

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* The presence of some metabolites in fecal samples can vary according to the person and the animal model, and some metabolites not present in the list may be analyzed or vice versa.