

- Comprehensive biomarker panel with 71 parameters
- Unbiased multiparameter quantification
- Metabolite profiling in high-throughput (60 samples/24 h)
- Highly standardized and automated
- Reliable, reproducible, cost effective

## Product Benefits and Applications

- Provides insights into the current, individual metabolic state of the donor
- Allows an assessment of personal health
- Enables the detection of health risks or diseases
- Supports the selection of therapies and therapy accompaniment
- Offers insights into pharmaceutical drug development
- Supports clinical trials through deeper understanding of individual collectives

## Technical Specifications

Technology	1D 1H-NMR spectroscopy, lifespın's proprietary data analysis
Specimen type	Human CSF
Sample requirements	600 µL particle free biofluid Lower volumes possible upon request
No. of reported parameters	Approx. 70
Report format	Spreadsheet and analytical report
Reported units	mmol/L or g/L
Sample shipping	Ship on dry ice

**lifespın**® Profiler

CSF Biomarker Analysis (RUO\*)

\*Research use only

### Matrix-specific Biomarker panel:

The lifespın<sup>Profiler</sup> provides multiparameter quantification for all types of biological samples. We currently collect metabolic data from blood, urine, saliva and liquor (CSF). Further sample requirements are available on request.

### Extended Biomarker panel:

An extension of the metabolic profiles is possible and can be tailored individually. Customized extensions benefit from our lifespın database with currently more than 1000 different metabolites (list available on request).

### Pharmacogenetics and Therapeutic Drug Monitoring:

Whether you require help with a more targeted analysis and research into pharmaceutical drug development, clinical trial accompaniment or Therapeutic Drug Monitoring – we support your exciting projects with our expertise and creativity.

## Our offer

- **Service laboratory**



We gladly digitize your samples. Up to 1000 samples in less than 7 working days possible.

- **Your metabolome scanner**



We are happy to support you in planning and implementing your own system.

- **Cloud and IT based solutions**



You have digitized your biological samples and need further data analysis? You look for reference data, statements on special age groups, gender-dependencies, comparative collectives, similarity and/or conspicuity analyses? We are happy to support you with our own data sets, technology platform and experts.

**Reach out to us with your questions: [customerservice@lifespın.ai](mailto:customerservice@lifespın.ai)**

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**No. Substance**

- 1 1,2-Propanediol
- 2 1,7-Dimethylurate
- 3 2,3-Butanediol
- 4 2-Hydroxybutyrate
- 5 2-Hydroxyisobutyrate
- 6 2-Hydroxyisovalerate
- 7 3-Hydroxybutyrate
- 8 3-Hydroxyisobutyrate
- 9 3-Hydroxyisovalerate
- 10 Acetate
- 11 Acetoacetate
- 12 Acetoin
- 13 Acetone
- 14 Acetylcholine
- 15 Adenine
- 16 Alanine
- 17 Albumin
- 18 Arginine
- 19 Ascorbate
- 20 Asparagine
- 21 Aspartate
- 22 beta-Alanine
- 23 Butyrate
- 24 Carnitine

**No. Substance**

- 25 Choline
- 26 Citrate
- 27 Creatine
- 28 Creatinine
- 29 Dimethylamine
- 30 Dimethylsulfone
- 31 Ethanol
- 32 Ethanolamine
- 33 Formate
- 34 Fructose
- 35 Fumarate
- 36 Galactose
- 37 Glucose
- 38 Glutamate
- 39 Glutamine
- 40 Glutathione
- 41 Glycerol
- 42 Glycine
- 43 Histidine
- 44 Hypoxanthine
- 45 Inosine
- 46 Isobutyrate
- 47 Isoleucine
- 48 Isopropanol

**No. Substance**

- 49 Ketovaline
- 50 Lactate
- 51 Leucine
- 52 Lysine
- 53 Mannose
- 54 Methanol
- 55 Methionine
- 56 myo-Inositol
- 57 Ornithine
- 58 Phenylalanine
- 59 Proline
- 60 Propanol
- 61 Propionate
- 62 Pyroglutamate
- 63 Pyruvate
- 64 Serine
- 65 Succinate
- 66 tert-Butanol
- 67 Threonine
- 68 Tyrosine
- 69 Uracil
- 70 Urea
- 71 Valine

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