

Metabolomics profiling assays and services

Standardized, quality-controlled, quantitative metabolomics profiling solutions **biocrates.com**

Mass spectrometry-based metabolomics assays



Comprehensive analytical portfolio



Project management



analysis and biostatistics



Interpretation and pathway analysis



For research use only | not for use in diagnostic procedures

Biological discoveries with metabolomics

Explore the metabolic phenotype with a standardized technology designed for longitudinal cohort studies.

biocrates integrates quantitative, targeted profiling



biocrates

More information



Visit our website to find out more about metabolomics and our products biocrates.com

Expert support from study design to actionable results



Comprehensive analytical portfolio ▶ Best fit for every research question

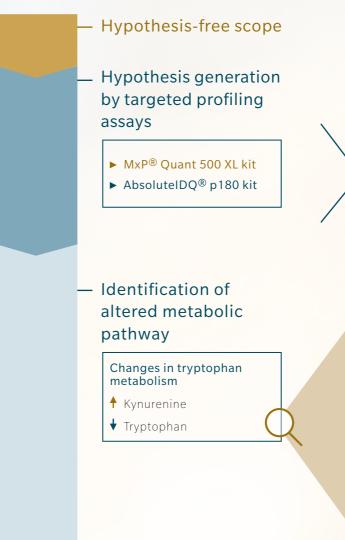
- ► Quality-controlled analysis in an
- ISO certified laboratory Customized assay development



Project management

- Expert support from study design to actionable results
- Recommendations for sample preparation, storage, and shipment
- ▶ Turn-around time is typically 12 weeks after samples are received

From vast explorations to deeper dives





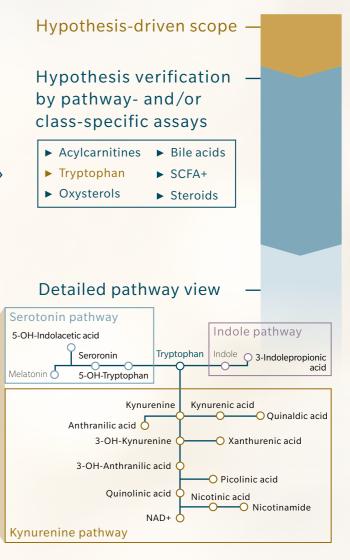
Data analysis and biostatistics

- Expert analysis of targeted metabolomics data
- Profound expertise in biostatistics
- Identification of key results



Interpretation and pathway analysis

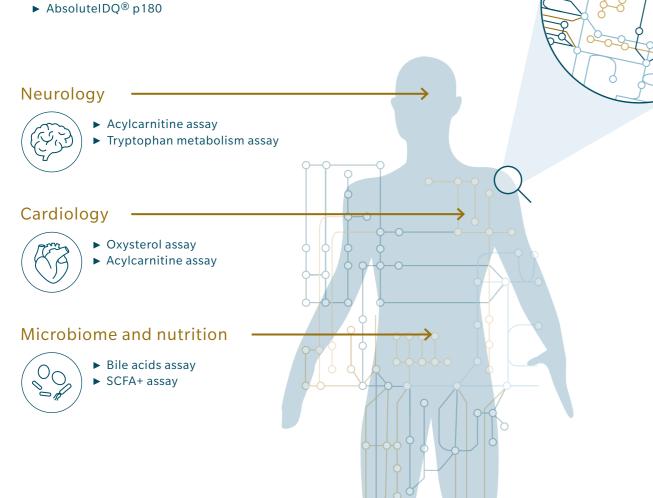
- Established institutional knowledge at your service
- State-of-the-art interpretation of results
- Metabolic pathway visualizations



Illuminating the dynamics of health and disease

Standardized, quantitative, targeted profiling assays

▶ MxP[®] Quant 500 XL



Biological applications – The possibilities are endless



Microbiome and nutrition

Metabolomics explains microbiome-host interactions on a functional level



Cardiometabolic diseases

Metabolomics is a key technology that confirms how eating habits and lifestyle in general influence our well-being and health



Aging and CNS disorders

Metabolomics elucidates the funcional attributes of the brain, neurodegenerative diseases, and the gut-brain axis



Infectious diseases Metabolomics enables scientists

to uncover the mechanisms of infectious diseases and treatments

Actionable results through detailed pathway analysis

Tryptophan metabolism assay

Most complete coverage of tryptophan metabolism (17 metabolites)

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→ SCFA+ assay

Comprehensive coverage of 19 short- and medium-chain (including branched-chain) fatty acids

Comprehensive analytical portfolio

Covering > 1,000 metabolites

Approach	Assay name	Number & class of metabolites	Sample volume
Targeted profiling assays	MxP® Quant 500 XL assay	Up to 107 small molecules and 912 lipids from 39 analyte classes	30 µL
	MxP® Quant 500 assay	Up to 107 small molecules and 523 lipids from 26 analyte classes	20 µL
	AbsoluteIDQ [®] p180 assay	Up to 43 small molecules and 145 lipids from 7 analyte classes	20 µL
Pathway- and/or class-specific assays	AbsoluteIDQ [®] Stero17 assay	Up to 17 steroid hormones from all 5 major classes	250 – 550 µL
	AbsoluteIDQ [®] Bile acids assay	Up to 20 bile acids (10 primary, 10 secondary)	20 µL
	Short-chain fatty acid PLUS assay	Up to 19 fatty acids (11 short-, 8 medium-chain)	60 µL
	Oxysterol assay	Up to 18 free (oxy-) sterols	30 µL
	Tryptophan metabolism assay	Up to 17 tryptophan pathway metabolites	120 µL
	Acylcarnitine assay	Up to 43 acylcarnitines + free carnitine	30 µL

Experience with diverse samples

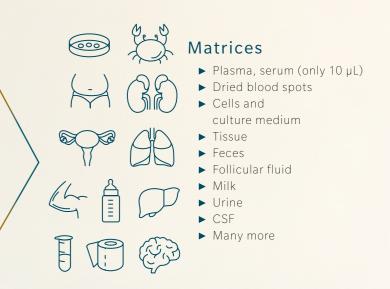
From various species and matrices



- ▶ Human
- Mouse
- ► Rat Monkey
- ► Cow
- ► Dog
- Zebrafish
- Cat
- ▶ Yeast
- ► C. elegans
- ► E. coli
- Many more

\rightarrow Acylcarnitine assay

Highly specific separation of 7 groups of isomers / isobars, enabling quantitation of 43 acylcarnitines + carnitine



Standardized, quality-controlled, quantitative metabolomics profiling solutions

Expert data analysis and biological interpretation services

Data only

atistical package

Data interpretation

- ► Raw data processing
- Quality control
- Data normalization
- Data processing
- ► MetabolNDICATOR[™]
- Descriptive statistics
- Univariate statistics
- Significance testingFold changes
- Multivariate statistics
- Data visualization

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- Pathway analysis
- Biochemical interpretation
- ► Literature research

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Data and interpretation services

biocrates makes metabolomics accessible to all. We offer comprehensive statistical analysis and data interpretation packages for your datasets, whether obtained from our services or from one of our standardized kits.



Quantitative, reproducible, quality-controlled standardized workflow

biocrates' simplified workflow is built on years of scientific experience and cutting edge technology.



Read more



biocrates list of metabolites

More than 1,000 metabolites accessible through targeted metabolomics

biocrates.com/metabolites

shop.biocrates.com Last revised 01 | 2023

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Applications of metabolomics

Understand how metabolomics is already changing lives today

biocrates.com/applications

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