Metabolon Verus™ Metabolomics Kit

Generate Deeper Insights with Metabolon's Metabolomics Workflow & Tools in Your Lab



Why Metabolon Verus?

Metabolites are the real-time reporters of phenotype, reflecting both genetic programming and environmental influences in ways that genomics and proteomics alone cannot capture. Despite this immense potential, the field of metabolomics has faced persistent challenges, including workflow complexity, lack of standardization, time-consuming data processing, error-prone metabolite identification and specialized expertise needed for insight generation.

The Metabolon Verus Kit was engineered to address these limitations by delivering a streamlined end-to-end workflow for metabolomics data generation, processing, and biological interpretation into labs across the world. By combining reliable data generation with intuitive informatics tools and a robust support ecosystem of Metabolon's industry-leading metabolomics knowledge, the Verus Kit provides a complete solution that moves researchers efficiently from samples in the freezer to actionable insights only metabolomics can reveal.

Metabolon Verus Kit by the Numbers

>1500	70+	700+	5 Days
Reference Library Metabolites	Biological Pathways Covered	Metabolites Reported per Study	From Samples to Insights

Collaborative Informatics Tools Bring it all Together for Deep Biological Insights

High-quality metabolomics data generation, processing and visualization to accelerate deep discovery

- Standardized & Streamlined Sample Preparation & Data Generation Workflows
- Fast & Automated Data Processing
- Accurate & Reproducible Metabolite Identification
- Powerful & Intuitive Bioinformatics Tools
- Broad Metabolite Coverage for Deep Biological Insights

For Research Use Only. Not for use in diagnostic procedures.

Metabolon Verus Kit Benefits

The Verus Kit benefits a range of users, from MS Facilities aiming to increase throughput, to CROs aiming to standardize, and scientific investigators seeking reliable metabolomics data.

Deep Biological Insights

- Search for ~1,500 metabolites across 100+ biochemical pathways in a single run.
- Themes include:
  - ✓ Microbiome
  - ✓ Exposome
  - ✓ Liver Function
  - ✓ Cardiometabolic Health
  - ✓ (Neuro)Inflammation
  - ✓ Immunometabolism
- Leverage metabolomics for biomarker discovery, disease mechanism studies, patient stratification, population health, and hypothesis generation.

Standardized, Scalable & Reproducible

- Validated methods, data processing, robust QC, and accurate metabolite IDs ensure reproducible results across studies, labs, and time.
- Flexible workflow supports combining smaller projects on a single plate or scaling across multiple plates for larger studies.
- Automated data processing returns interpretable results in hours, not weeks.

Powerful Bioinformatics Platform

- Results delivered into the Integrated Bioinformatics Platform (IBP) with publication-ready statistics, pathway analysis, and Biomarker Lenses®
- Native multi-omics integration: connect metabolomics with transcriptomics, proteomics, and metagenomics.
- Fast, easy analysis with dropdown menus to set up analyses , no coding required.
- Collaboration tools enable diverse research teams to apply their expertise to the challenge.

Metabolon's Tools & Expertise in Your Lab

The Metabolon Verus Metabolomics Profiling Kit encapsulates 25 years of scientific leadership and Metabolon's unwavering commitment to data quality, robustness, and biological insight. By reducing barriers to metabolomics and multi-omics integration, the Verus Kit represents Metabolon's commitment to making the most powerful layer of biology accessible to every laboratory, everywhere.

Key Parameters

Supported LC-MS Systems

LC:
- Waters Acquity I-class
- Thermo Vanquish Flex or Horizon

Mass Spectrometers (Thermo Orbitraps)
- Tribrids (IDX/IQX)
- Orbitrap Exploris series (120/240/480)
- QExactive (Plus and UHMR)

More instruments to follow

Supported Sample Types

Fully Validated:
- Blood (Plasma, Serum) – 50 µL
- Urine – 25 µL

Development in Progress:
- Cells, Tissue, and Feces
- Inquire about other sample types

70+ Pathways Covered, Including:

- **Amino Acids** (proteinogenic amino acids, related derivatives like neurotransmitters)
- **Lipids** (bile acids and a broad array of lipid subclasses)
- **Carbohydrates & Energetics** (sugars and central energy metabolism)
- **Xenobiotics** (medications, food metabolites & environmental chemicals)
- **Nucleotides** (DNA and RNA precursors and catabolites)

Visit metabolon.com/metabolomics-profiling-kits for more information.

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