



## Lipidomics Research Outsourcing Services

Our lipidomics research outsourcing services provide comprehensive lipid profiling, structural elucidation, and pathway mapping to support disease biomarker discovery, nutritional studies, and therapeutic development.

### Our Lipidomics Research Capabilities

Our analytical chemists and bioinformaticians apply cutting-edge mass spectrometry, chromatography, and computational tools to deliver detailed lipid quantification and classification data for complex biological samples.

### Types of Lipidomics Research We Handle

- Comprehensive Lipid Profiling
- Fatty Acid Composition Analysis
- Glycerophospholipid Characterization
- Sphingolipid Analysis
- Sterol and Cholesterol Profiling
- Triglyceride and Diglyceride Measurement
- Lipid Mediator Quantification
- Lipid Oxidation Product Analysis
- Lipid Metabolism Pathway Mapping
- Lipid Biomarker Discovery
- Targeted and Untargeted Lipidomics
- Quantitative Lipidomics
- Stable Isotope Labeling Studies
- Structural Lipid Elucidation
- Cellular Lipidomics
- Tissue Lipid Distribution Analysis
- Plasma and Serum Lipid Profiling
- Lipidomics for Metabolic Disorders
- Nutritional Lipidomics
- Diet-Induced Lipid Changes Analysis
- Drug-Induced Lipid Alterations
- Neuro-Lipidomics
- Inflammatory Lipid Mediator Profiling

- Cardiovascular Lipid Biomarker Studies
- Cancer Lipidomics
- Data-Independent Acquisition Lipidomics
- Regulatory-Compliant Lipidomics Reports
- Publication-Ready Lipidomics Data
- Custom Lipidomics Research Projects

## **Key Research Outsourcing Services Offered**

- Sample Preparation and Lipid Extraction
- HPLC-MS/MS and UPLC-MS Analysis
- GC-MS for Fatty Acid Profiling
- Targeted Lipid Quantification Protocols
- Untargeted Lipid Profiling Pipelines
- Stable Isotope Labeling Experiments
- Lipid Mediator Quantitation Assays
- Lipid Oxidation Product Detection
- Pathway Mapping and Network Analysis
- Data QC and Statistical Analysis
- Bioinformatics Data Interpretation
- Integration with Other Omics Data
- Regulatory-Compliant Report Generation
- Confidential Data Handling and NDA
- Interim Data Reviews and Updates
- Stakeholder Presentation Preparation
- Publication-Ready Figures and Reports
- Workshops and Training in Lipidomics
- Post-Project Technical Consulting
- Patent and IP Filing Assistance
- Grant Proposal and Manuscript Assistance
- Custom Lipidomics Method Development
- Long-Term Lipidomics Research Partnerships
- Sample Biobanking and Data Archiving
- Data Security and Backup Solutions
- Quality Assurance and Method Validation
- Compliance with GLP and ISO Standards
- Cross-Platform Data Integration
- Custom Reports Tailored to Regulatory Needs
- Advanced Statistical Modelling for Lipid Data

## **Why Choose Us for Lipidomics Research Outsourcing?**

Our lipidomics experts deliver validated, high-resolution lipid profiles and pathway data, ensuring robust insights for basic research, drug development, and regulatory submissions.

## Industries & Sectors We Serve

- Pharmaceutical and Biotech Companies
- Nutrition and Food Science Research
- Clinical and Biomedical Research Centers
- Cancer and Metabolic Disease Research Labs
- Academic Omics Departments
- Regulatory and Compliance Organizations

## Customized Lipidomics Solutions

We tailor lipid extraction, analysis pipelines, and bioinformatics workflows to your sample type, research question, and compliance requirements.

## Quality Assurance & Regulatory Compliance

Our workflows comply with ISO, GLP, and GCP standards, ensuring reproducible, audit-ready lipidomics data and comprehensive reports for regulatory submissions and publications.

## Case Studies & Client Success Stories

Explore how our lipidomics services have supported disease biomarker discovery, nutritional studies, and drug safety assessments worldwide. References available on request.

## How It Works: Our Research Outsourcing Process

1. **Requirement Gathering:** Define sample types, lipid classes, and analytical endpoints.
2. **Proposal & Quotation:** Provide detailed lipidomics plan, timeline, and cost estimate.
3. **Lab Execution:** Perform lipid extraction, MS analysis, and bioinformatics processing.
4. **Data Reporting:** Deliver validated lipid profiles, pathway maps, and compliance-ready reports.
5. **Post-Project Support:** Offer data integration, manuscript assistance, and future study planning.

## Frequently Asked Questions (FAQs)

**Q:** Can you perform both targeted and untargeted lipidomics?

**A:** Yes — we offer both targeted quantification and global profiling workflows.

**Q:** Do you handle multi-omics integration?

**A:** Absolutely — we integrate lipidomics with proteomics, metabolomics, and genomics data.

**Q:** How secure is my data?

**A:** Strict NDAs, encrypted storage, and secure lab environments guarantee complete

confidentiality.

## **Get Started / Request a Quote**

Contact us today to discuss your lipidomics research project and receive a customized workflow, cost estimate, and timeline aligned with your scientific goals.

## **Contact Us**

Email: [research-outsourcing@nthrys.com](mailto:research-outsourcing@nthrys.com)

Phone: +91-8977624748