



APPLIED RESEARCH CENTER

A PARTNER IN YOUR RESEARCH



APPLIED GENOMICS

Our applied genomics services include chemical, microbiological, molecular and next-generation sequencing (NGS) solutions for industrial, academic and governmental collaborators with a focus on food safety and clinical research. Our NGS services include whole genome sequencing and bioinformatic analysis of generated datasets. We are able to help you with product safety and quality testing, sequencing, and organism identification and speciation with an emphasis on collaborative experimental design. As an AOAC Research Institute partner lab (PTM, OMA, SLV) in food safety, we work to validate your test kits and provide independent third-party data you can use for product development.

Our services include:

- > Whole genome sequencing
- > 16s metagenomics / shotgun metagenomics
- > Botanical sequencing
- > Bioinformatics
- > Ruminant DNA detection
- > Product validation / commercialization support
- > Allergen validation and verification
- > Collaborative publication



BIOANALYTICS

Providing bioanalytical services to the academic research community and business research sectors, we help researchers from the initial stages of study planning through execution and publication. For researchers theorizing about exposure in relation to specific diseases or conditions, we can provide custom method development to complete analyses. Utilizing techniques including liquid chromatography-mass spectrometry (LC-MS) and inductively coupled plasma mass spectrometry (ICP-MS), our analysis panels cover multiple biological matrices.

We can customize analysis panels to meet study needs, providing qualified methods for specific targeted chemical compounds. Sample analysis is completed in ISO-accredited laboratories with rigorous quality control systems and a dedicated team of experienced scientists.

Our services include:

- > Customized method development
- > Panels for 70+ chemical metabolites and metals in biological matrices
- > Collaborative publication
- > Toxicology research / regulatory support

GOVERNMENT & PROFESSIONAL SERVICES

We seek to grow NSF's contribution to public health by assisting manufacturers in meeting their regulatory needs and through collaborative projects with national and international utilities, governments, U.S. and ally militaries, NGOs and other innovators and implementers.

We support manufacturers seeking toxicology services to meet regulatory requirements such as FIFRA, Prop 65, the Lautenberg Chemical Safety Act or individual state mandates. We can also help organizations looking to employ new tools for informed decision-making and monitoring around valuable resources such as water or for wastewater management. With a footprint in many countries, we can help influence public health policies in areas where regulations are being developed.

Our services include:

- > California Proposition 65 (Prop 65)
- > Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
- > Quantitative structure-activity relationships (QSAR) model
- > Chemical risk assessment
- > Regulatory support / toxicology research
- > Grant collaboration

SANITATION & CONTAMINATION CONTROL

We provide infection prevention services and work with related industries to validate products and assist with market entry. Trained in environmental health and epidemiology, our staff of scientists works with you to develop custom research studies or to validate your contamination control strategies.

Our STAT EPID program is an evidence-based, third-party validation of cleaning and processes, based on microbial swabbing for reliable and precise contamination monitoring. STAT EPID is a solution providing due diligence, compliance and trusted third-party validation for facilities and service providers.

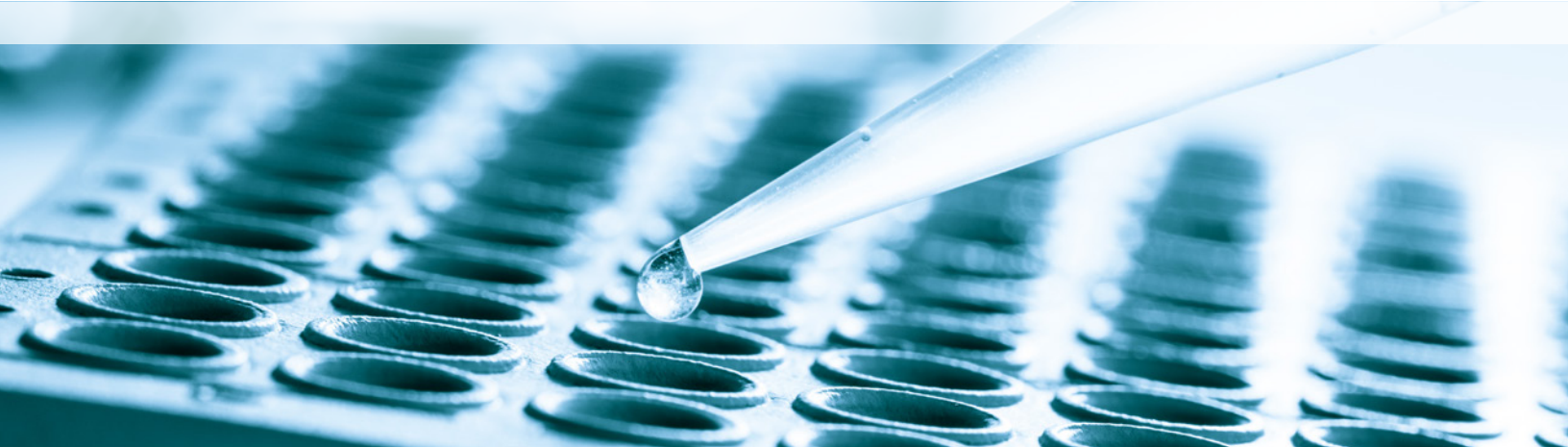
Our services include:

- > Product efficacy claims testing / sterility testing
- > Validation of cleaning products and protocols
- > Biofilm treatment and prevention studies
- > Environmental contamination monitoring
- > Pathogen identification
- > Statistical analysis



APPLIED RESEARCH

NSF International's Applied Research Center is the research and development arm of NSF, providing customized test solutions and consultation to companies and research groups in the health care, infection prevention, food safety, emerging technology, hospitality/tourism, government, academia, water, and environmental safety sectors. The Applied Research Center innovatively applies NSF's experience and years of expertise to new markets or to new technologies in existing markets. At the core, the Applied Research Center works toward the NSF mission to further public health by creating novel service offerings and method development opportunities.



Founded in 1944, NSF International is committed to protecting human health and safety worldwide. As a global, independent organization, NSF facilitates standards development, and tests and certifies products for the food, water, health sciences and consumer goods industries to minimize adverse health effects and protect the environment. NSF International is a Pan American Health Organization/World Health Organization (WHO) Collaborating Centre on Food Safety, Water Quality and Indoor Environment.

NSF's laboratories provide a wide range of testing, certification and technical services as well as human health risk assessments across all major industries. We operate more than 303,000 square feet of ISO/IEC 17025-accredited, state-of-the-art labs, including extensive instrumentation and technologies, in North America, Latin America, Europe and Asia. NSF International has a professional staff of engineers, microbiologists, toxicologists, chemists, public health experts and certification specialists in locations worldwide.

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