

IBI Innovations

Superior technologies

IBI uses a specialized form of mass spectrometry to produce information about protein mass and structure. Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF/MS) can produce qualitative information about differences between the sample protein and its normal or modified state as well as quantitative information on the proteins' abundance. This represents a distinct advantage over other analysis technologies, which oftentimes cannot differentiate between wild-type and variant protein species and have other disadvantages such as cost, sample purity, and limitations on the kinds of proteins that can be analyzed.

Industry-leading expertise

IBI's founders and researchers have been using mass spectrometry and MALDI-TOF to analyze human proteins longer than any other research organization. Clients can leverage this unmatched, industry-leading expertise to shorten development cycle times for biomarker discovery and clinical therapy trials.

Better results

IBI turns protein analysis into a major strategic advantage by revealing the proteins and protein variants associated with disease. By combining high throughput capabilities with techniques that characterize proteins completely and accurately, IBI provides drug development and research institutions with a greater depth of information - faster and more cost-effectively than ever before.

IBI reduces time-intensive sample handling steps with an affinity system that draws targeted proteins directly from biological media. Automatic robotic workstations, automated mass spectrometry, and streamlined processes produce data from a hundred or hundreds of samples an hour. This makes it practical to get detailed analysis about multiple proteins through from screened population segments or individual samples. Through IBI, good science leads to superior business results.



INTRINSIC BIOPROBES, INC.

IBI Innovations (continued)

Accelerated performance

IBI has created patented tools and techniques that enable high-throughput protein screening and characterization. These innovations represent decades of cumulative research and development hours, are scientifically validated, and provide immediate performance gains to drug development and research organizations.

- **MSIA-tips** are affinity pipettes that increase protein detection, eliminate extensive sample preparation, and are fitted for robotic workstations for sensitive, high-throughput, parallel sample analysis.
- **Bioreactive probes** (BRP) have 96 or 386 wells that modify protein samples in a way that is ideal for mass spectrometric analysis. Using BRP keeps sample losses to a minimum, reaction times short, and enables rapid, parallel analysis of thousands of samples per day.
- **Biomolecular interaction analysis mass spectrometry** (BIA-MS™) is a two-step process that produces extensive quantitative and qualitative information about proteins by analyzing the structure and function of protein samples.
- **Bioactive chips** prepare samples for high-throughput protein analysis on a single bioactive microchip, through advantageous analyte isolation, modification, and concentration techniques.

Exceptional results

IBI's methodology generates detailed information about protein structure and function from a large volume of protein samples quickly and cost-effectively. Contact IBI to accelerate your biomarker discovery or drug development efforts. Our team will work with you to learn more about your organization's needs and tailor a solution that helps you get better results, faster.



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