

Microfluidic Spectrometer



Overview

Microfluidic impedance detection technology, achieved through the integration of microscale fluid manipulation and bioimpedance spectrum analysis, has enabled the real-time monitoring of biological samples ranging from single cells to organ-level systems, now standing at the forefront. Microfluidic impedance detection technology, achieved through the integration of microscale fluid manipulation and bioimpedance spectrum analysis, has enabled the real-time monitoring of biological samples ranging from single cells to organ-level systems, now standing at the forefront. Microfluidic approaches enable rapid manipulation of small volumes and have found a wide range of applications in biotechnology providing improved control of reaction conditions, faster assays, and reduced reagent consumption. The integration of mass spectrometry with microfluidics has the potential to revolutionize the field. Microfluidic modulation spectroscopy (MMS) gets you highly sensitive and quantitative structural measurements across proteins, peptides, and RNAs — even in the most challenging buffers. The ability to manipulate small volumes of fluids within microchannels offers significant advantages, such as enhanced precision and control.

Article Content

High-throughput Fluorescence Detections in Microfluidic Systems

High voltage power supply Power Multimode optic fiber Pinhole ObjectiveFluorescent sample in microfluidic channel Spectrometer Computer Light source Dark-field condenser Figure 10

Related Video Reference

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