

Nanostream μ PLC Products

Nanostream is pioneering micro parallel liquid chromatography (μ PLC) with its suite of products for applications across drug discovery and development.

24 parallel LC columns increase analytical throughput.

Leaders in drug discovery research—from large global pharmaceutical companies to smaller biotech and academic screening centers—come to us to increase their analytical throughput and streamline their assay programs. Like you, they are being asked to increase their productivity every year.

Nanostream has developed a suite of products based on micro parallel liquid chromatography (μ PLC) technology designed to increase sample analysis capacity without incurring additional resources in people, space, or materials. Nanostream's products—which include instrumentation, software, and 24-column Brio® cartridges—deliver the benefits of μ PLC to a wide range of applications from lead identification to manufacturing. Choose among the following three products to meet your laboratory's needs:



Nanostream CL™ System for high-throughput chemical analysis

With a 24-fold increase in analytical throughput, the Nanostream CL System is ideally suited for a range of analytical applications including physicochemical property profiling, pre-formulation and formulation studies and amino acid analysis. UV absorbance detection is standard; options for fluorescence detection and an integrated plate changing system are available.



Nanostream LD™ System for assay detection

The Nanostream LD System provides a generic format for biochemical screening. It has been demonstrated for caspase, cerebrosidase, glucuronidase, lipid-based, kinase, NAD⁺/NADH, and protease assays. The Nanostream LD System includes UV absorbance detection, fluorescence detection and a two-tower integrated plate changing system.



Nanostream CX™ System for chromatographic sample preparation

The Nanostream CX System accelerates sample preparation for drug metabolism and pharmacokinetic applications, which require MS or MS/MS detection. The Nanostream CX System incorporates UV absorbance detection, a time-triggered parallel fraction collector, and a four-tower plate changing system.

At the heart of Nanostream's μ PLC products is the 24-column microfluidic Brio cartridge, which enables you to analyze multiple samples in parallel while reducing solvent consumption. The Brio cartridge, made of polymeric materials, incorporates 24 columns packed with standard stationary phase material to achieve reversed phase separations. A variety of cartridges and stationary phases are available.



Twenty-four samples are simultaneously analyzed in a Brio cartridge. Mixing and distribution of the mobile phase to each of the 24 microfluidic LC columns is precisely controlled in each cartridge.

Rapidly convert chromatograms into meaningful results.

Nanostream's acquisition software offers you real-time visualization of chromatograms from sets of 24 samples as they are simultaneously separated using μ PLC. The analysis software facilitates batch analysis and report generation, which allow you to rapidly assess and report results. You can select assay-specific advanced analysis software modules, which support a range of applications, including compound library purity assessment, log P, log D, solubility/permeability assessment, and ratiometric assay analysis.

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