

Protein Array Tools from Fabrication to Data Analysis

Optimize Your Arrays with High Content Proteomics

PerkinElmer's microarray-based proteomics tools automate and streamline the fabrication, processing, and analysis of protein arrays by integrating these key processes into one unified product suite.

Piezorray

The Piezorray™ Non-contact Spotting System is the next generation microarray dispensing system from PerkinElmer. Use Piezorray to fabricate high quality, precise and dense arrays by spotting onto a wide variety of non-porous and porous substrates, including HydroGel™ 3D coated slides. Piezorray features a Windows® XP-based graphical user interface for setup and customization of array layout, complete hardware and motion control and data export including .gal file output.

HydroGel

HydroGel™ Coated Slides are three-dimensional (3D) substrates for protein microarrays, providing high probe loading capacity and a hydrophilic solution phase-like environment that preserves protein probe function. Low inherent fluorescence of the substrate supports a variety of detection strategies compatible with multiplexed analysis and high throughput screening. Microarrays produced with HydroGel coated slides have uniform spot morphology and provide performance features needed for developing assays for proteomics analysis.

ProteinArray Workstation

The ProteinArray™ Workstation is a flexible, fully automated protein array processing system that lets you get more from your protein arrays. The ProteinArray Workstation allows for automated

addition of multiple reagents to the assay chamber at varying times throughout the assay process. With user-definable features like flow rates, incubation agitation periods, temperature control, and incubation times, it is the optimal system for discovery and development of protein arrays. Combined with TSA AUTOMATED™ Kits the system offers a powerful tool for researchers.

TSA AUTOMATED Kits

See what you have been missing in protein microarrays with TSA AUTOMATED Kits. Specifically designed and optimized for use on the ProteinArray Workstation, these kits use proven Tyramide Signal Amplification (TSA) to better detect low-level abundance analytes which exist at biologically relevant concentrations. For assay development, TSA AUTOMATED kits enable you to optimize conditions and minimize printing concentrations. The result is a dramatic improvement in the performance of your protein arrays while minimizing expensive assay components.

ScanArray Express

Get extremely sensitive and reproducible image acquisition and analysis over a wide dynamic range with the ScanArray® Express family of confocal microarray scanners. Available in three models with up to four internal lasers, optional barcode reader and 20-slide autoloader, the ScanArray Express is the brand found in most microarray labs worldwide. The high quality data delivered from ScanArray scanners ensures your quantitative protein expression analyses will be high content—every array, every scan.

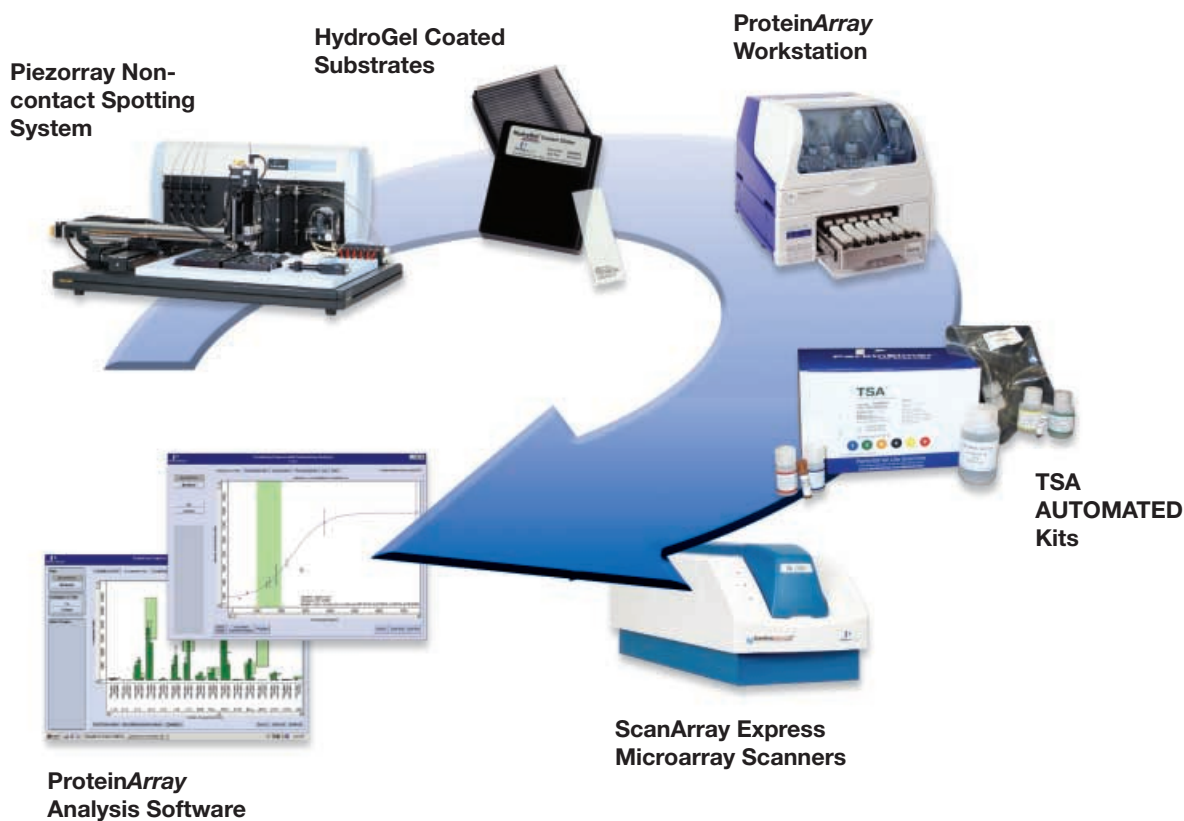
ProteinArray Analysis Software

Perform quantitative analysis of protein microarrays with ProteinArray Analysis Software, an optional module added to our ScanArray Express Software. With an increase in processing automation comes an increase in data. ProteinArray Analysis Software is designed to alleviate the bottleneck of data processing by providing standard curve generation, outlier detection, and threshold range limits among other available features.

Start Optimizing Your Arrays Today

We've applied our High Content Proteomics approach to protein microarrays and the result is more meaningful data from microarray applications. For more information on protein array tools from PerkinElmer, call 1-800-762-4000 or visit our website at www.perkinelmer.com/microarray.

For every step of your process we are here.



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