



Mistral^{MDA} GPC/SEC/FPLC System

Advanced characterization of proteins, antibodies, viruses, polymers, and nanoparticles

High Performance Characterization for Budget Conscious Laboratories and The Mistral^{MDA} is a collaboration between Precision Detectors, Inc. and Waters Corporation to develop and commercialize an optimized HPLC characterization system for the SEC analysis of polymers, protein, antibodies and their formulations.

Key System Features:

- **Multidetector Detector Array (MDA)** using minimum dispersion fluidics, the Mistral MDA System combines Waters and PDI technologies for critical path analytical data including absolute molecular weight, hydrodynamic radius and dual wavelength UV detection.
- Precision Detectors Inside configuration that couples a high performance diode laser light scattering detector system directly within the temperature controlled chamber of the Waters 2410 differential refractive index detector.
- Complete systems, both manual and automated, with temperature control options.
- Multiple detector configurations to select from. Permitting custom system optimization to meet your laboratory specific needs.
 - RI detection for universal determination of concentration.
 - The PD2000 family of molecular Static light scattering detection (1 angle for Mw, 2 angles for Mw, size as radius of gyration, and branching).
 - Dynamic light scattering detection for determining size as the hydrodynamic radius (down to 1 nm radius).
 - UV detection for selective determination of concentration.
 - UV ratio plots for determining peak homogeneity.



The Mistral^{MDA} System with LS/DLS/UV/RI Detection. Computer Controlled and can be fully automated

Advanced Biopolymer Analysis

The successful combination of the PD2010DLS inside the Waters 2410 Differential Refractive Index detector provides the most stable platform available for protein, antibody and virus analysis. The system is calibrated during manufacture.

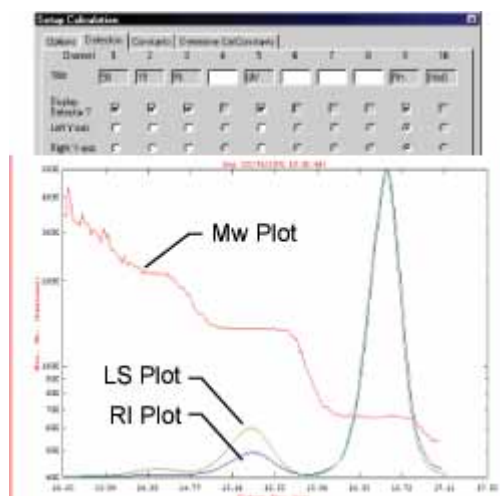
The Mistral^{MDA} System uses Precision Discovery 32 software for size and molecular weight analysis of your proteins in solution. What more, it is possible to measure molecular weights of glycoproteins and pegylated proteins accurately with our unique triple detector software calculations.

Waters BreezeTM SEC/HPLC System achieves a balance between simplicity, high performance, reliability and affordability in one comprehensive, easy-to-use HPLC system.

Waters 2487 Dual Wavelength Absorbance Detector features, high sensitivity and UV ratio plots.

The Mistral^{MDA} System is optimized for biomolecular analysis and purity studies.

Protein Analysis-UV, RI, LS, DLS Detectors



Advanced Polymer Analysis

The popular PD2020 inside the Waters 2410 Differential Refractometer provides the ideal detector platform for room temperature polymer characterization.

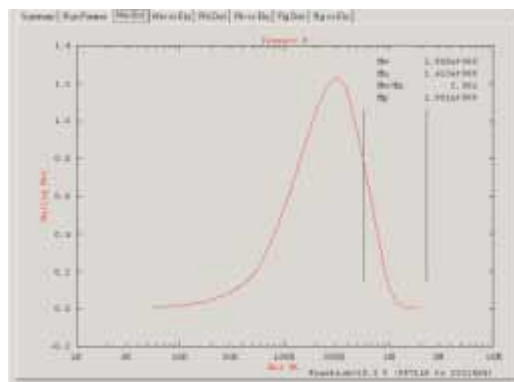
Featuring minimal inter-detector volume, detector temperature control up to 50 °C for sensitive and stable baselines for the analysis of soluble organic and aqueous polymers.

The factory calibrated system can be used immediately after installation.

A column oven is available for extended temperature analysis using viscous solvents like DMF, DMAc. The combination of Waters Breeze SEC/HPLC System, PD2020, and Discovery³² analysis software provides accurate size and molecular weight Distribution

Advanced features include, branching analysis, Mn, Mw, Mz, Mz+ calculations, template reports, overlays, conformational graphs and results for structural macromolecular research.

Polymer Analysis - Discovery³² Software



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