POSTNOVA

NovaSEC System

Multi detection SEC System – MALS, Viscometer, RI, UV

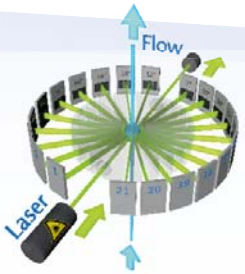
Molecular weight, Intrinsic viscosity
Molecular structure (branching, conformation)
Molecular size (R_G, R_H)

NovaSEC System

Unique Features

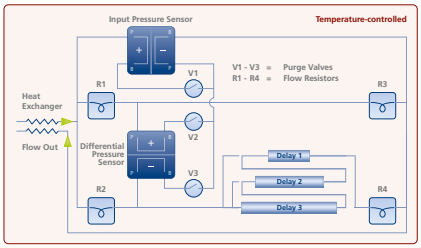
21 Angle MALS Detector

- Absolute molar mass and size
- Maximum number of angles
- Unique low angle range
- 'Clean-by-design' flow cell



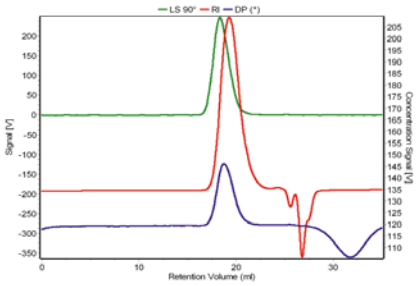
Four-Capillary Viscometer Detector

- Absolute intrinsic viscosity
- Branching and conformation
- Size down to 1 nm
- Temperature controlled



NovaSEC Software

- Powerful multi detector SEC software
- Single software data collection/calculation
- Multiple evaluation and plot options
- Tools for MALS, branching, distributions, radius, and more …



Applications

- Synthetic Polymers
- Biopolymers, Polysaccharides
- Peptides, Proteins, Antibodies

Specifications

MALS PN3621

- Sample Cell Volume:
  63 µL
- Light Scattering Volume:
  < 7.8 nL
- Light Scattering Angles:
  7° - 164° at 21 angles
- Laser Specifications:
  532 nm (green) adjustable
  2.5 - 50 mW
  other wavelength and filter options available on request
- Cell Temperature Control:
  10°C above room temperature up to 60°C
  Stability +/- 0.01°C at 35°C
- Dimensions:
  46 cm x 26 cm x 16 cm

Viscometer PN3310

- Maximum Flow Rate:
  1 – 3 mL/min
  (solvent dependent - water max. 1.5 mL/min; THF max. 3 mL/min)
- Hold-up Volumes:
  13 mL, 9 mL, 5 mL
  (user-selectable)
- Bridge Arm Volume: 30 µL
- Bridge Operating Temperature:
  Ambient +4 – 60 °C
- Bridge Temperature Stability:
  < 0.01 °C at 35 °C bridge temp.
- Measurement Accuracy:
  +/- 0.25 % of full scale
- Transducer Protection:
  Pressure Sensor Protection (PSP)
- Dimensions (DxWxH):
  460 x 260 x 160 mm

NovaSEC Software

- Multi Detector Software
- Full Control of SEC2000 System
- Mark-Houwink Plot
- Conformation Plot
- Branching Calculation Module

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