

# „Simply the best...“ - HILIC - Asahipak NH2P – the polymer-based Amino column

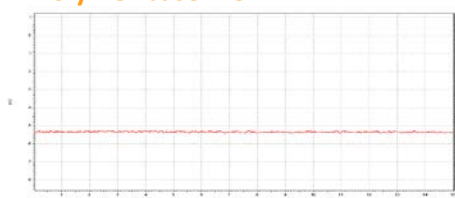
## Comparison of silica-based versus polymer-based Amino columns

### Silica Baseline



**Column: Silica-based NH2 from competitor**  
(250 x 4.0 mm, 5 µm)  
Noise: 1-2 mV, high drift

### Polymer baseline



**Column: Polymer-based Shodex Asahipak NH2P-50**  
(250 x 4.6 mm, 5 µm)  
Noise: 0.1 mV, very low drift

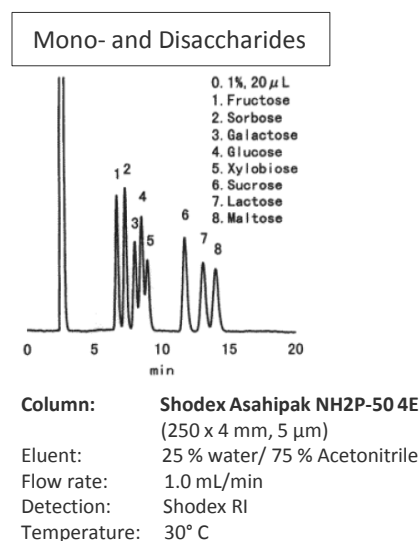
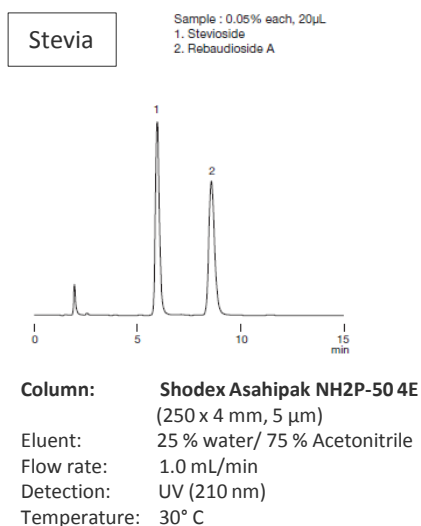
Eluent: isocratic, 25 % Water/  
75 % Acetonitrile  
Flow rate: 1.0 mL/min  
Detection: ELSD  
Temperature: 40° C

## Advantages

- Longer lifetime and extended stability (base material: polyvinyl alcohol)
- Wider pH range, can be used under alkaline conditions (pH 2-13)
- Better for LC-MS and ELSD (lower column bleeding)

## Typical Applications

- Sugar Analysis: Mono-, Di- and Oligosaccharides, amino sugars, sugar alcohols
- Polar substances like water-soluble vitamins
- Food analysis



## Available Dimensions

**Standard:** Asahipak NH2P-50: ID 4.6 mm with 50, 150, 250 mm length + guard (particle size 5 µm)  
**NEW for LC-MS:** Asahipak NH2P-40: ID 2.0 mm with 50, 150, 250 mm length + guard (particle size 4 µm)



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