

CARBOHYDRATE ANALYSIS HPLC COLUMNS

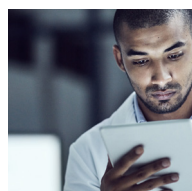
For over 30 years, Concise Separations has supplied the world with superior HPLC products and columns, providing customers with solutions for all types of carbohydrate separations. In this issue, we highlight some exciting new applications of our products, developed for customers using our Carbohydrate Analysis HPLC columns.

Ligand exchange is the preferred method for the separation of many sugars and sugar alcohols due to the simple water eluent. In ligand exchange, the negatively charged hydroxyl groups on the carbohydrate molecule interact with the positively charged, metal-loaded groups on the chromatography substrates. The carbohydrates are eluted by the polar water eluent mobile phase which competes for the sites on the metal ion.

Besides the ligand exchange mechanism, several secondary mechanisms' processes are also involved in the separation of the carbohydrates including size exclusion and normal phase partitioning. HPLC columns packed with low cross-linked polymers (gels) serve as the primary packings for carbohydrate analysis columns, and are available from a number of suppliers. In order to maximize the separation of a wide variety of samples, Concise Separations has developed the most complete line of carbohydrate analysis columns available on the market by combining ligand exchange (metals), size exclusion and partitioning (cross-linkage of polymer), particle size (column efficiency) and column size (speed versus resolution).

// FEATURES & BENEFITS //

- / Packed with chemically stable polymeric polystyrene divinylbenzene copolymers, varying in percent cross-linkage and particle sizes
- / Stable at high temperatures up to 95°C
- / Display consistent performance from column to column, polymer batch to polymer batch
- / Utilize the simplest and safest eluent of all-water
- / Offer more choices through combinations of cross-linkage (porosity), particle size, metal ligands, and column formats to meet your separation needs



30
years

CHROMATOGRAPHY

SEPARATIONS

REPRODUCIBILITY

PRECISION



