SiliaChrom IEC Phases for Ion Exchange Chromatography

Bio-Pharma Pharmaceutical

SiliaChrom IEC series are composed of polystyrene polymer-based packing bearing different functionalities such as weak or strong cationic and anionic functions. SiliaChrom IEC phases are compatible with most mobile phases and samples with a pH range from 1 to 14. Polymer-based columns tend to have lower efficiencies for small molecules compared to silica-based columns due to their smaller surface area.

Nevertheless, SiliaChrom IEC packings are a good alternative for samples that require a mobile phase pH outside the normal operating range of standard silica-based columns. SiliaChrom IEC columns are generally used for ion exchange separations, and are also useful for non-aqueous gel permeation chromatography size exclusion analysis and ion exclusion analysis of organic acids and carbohydrates.

SiliaChrom IEC Phases for Ion Exchange Chromatography

SiliaChrom Phases	Functional Group	%C	pH Stability Range	Characteristics	Phase Code
SiliaChrom IEC SA	Dimethylammonium Chloride	8	2.0 - 8.0	Strong anion exchanger	H950
SiliaChrom IEC SC	Sulfonic Acid	4.5	2.0 - 8.0	Strong cation exchanger	H930
SiliaChrom IEC WA	Amino	3	2.0 - 8.0	Weak anion exchanger	H960
SiliaChrom IEC WC	Carboxylic Acid	4.5	2.0 - 8.0	Weak cation exchanger	H940

Each SiliaChrom IEC phases is available in particule size 5, 7, 10 and 20 µm