



## Supercritical Fluid Chromatography (SFC) Separation – High Efficiency and High Capacity

### Innovative Surface Chemistry

#### Column Information

Utilizing highest purity and enhanced mechanical stability silica and pure bonding reagents, Sepax SFC bonded phases have been innovatively and specially designed to ensure maximum surface coverage, resulting in high stability of the stationary phases. The chemistry of monolayer formation is completely controlled that results in very reliable lot-to-lot and column-to-column reproducibility. The uniform, spherical Sepax SFC particles have a nominal surface area of 300 m<sup>2</sup>/g with a controlled pore size of 120 Å. Sepax SFC columns are packed with a proprietary slurry technique to achieve uniform and stable packing bed density for maximum column efficiency.

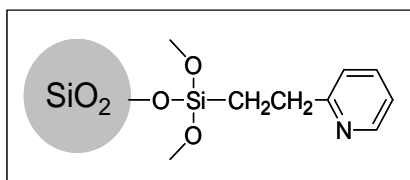
#### Selection of Sepax SFC columns

Phases	Standard particle size (µm)	Standard pore size (Å)	Other available particle size (µm)	Other available pore size* (Å)
SFC-Cyano	3, 5	120	1.7, 2.2, 10	200, 300
SFC-Amino	3, 5	120	1.7, 2.2, 10	200, 300
SFC-Pyridine**	3, 5	120	1.7, 2.2, 10	200, 300
SFC-SCX	3, 5	120	1.7, 2.2, 10	200, 300
SFC-Diol	3, 5	120	1.7, 2.2, 10	200, 300
SFC-Silica	3, 5	120	1.7, 2.2, 10	200, 300

\* Larger pore (>300 Å) will be custom synthesis

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Pyridine Phase



#### Characteristics

- Highly controlled chemistry avoided the formation of multi-layers for high column efficiency
- Available in reversed phase, normal phase, ion-exchange, and custom surface chemistry
- High chemical stability for low leaching
- High loading capacity

- Available columns with ID in the range of 75 µm to 30 mm and length from 1 to 30 cm
- Ultra-pure silica particles with controlled pore sizes
- Available packings from grams to multi-Kilogram
- pH stability: 1.5-8.0
- Suitable for separations of pharmaceuticals, peptides, amino acids, and other complex compounds



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