

Achiral Molecule success with SFC Columns

YMC delivers 9 different phases for SFC separations giving the chemist a range of choices for selectivity in SFC achiral separations.

- 9 different phases
- Analytical or Prep (4.6, 10, 20, and 30 mm i.d. columns)
- 5 micron packings
- YMC's hallmark attention to particle and chemistry details

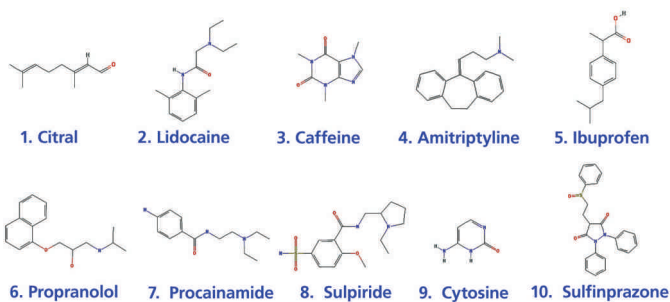
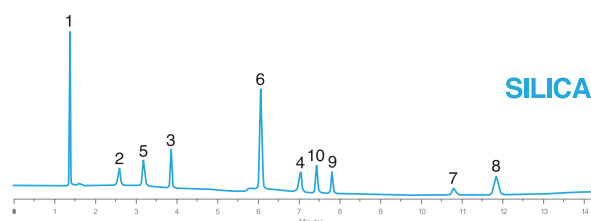
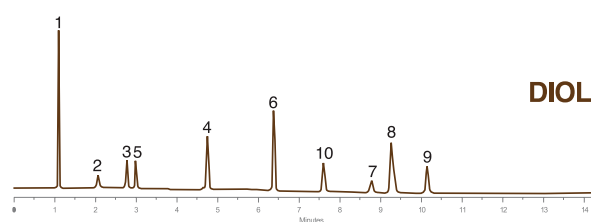
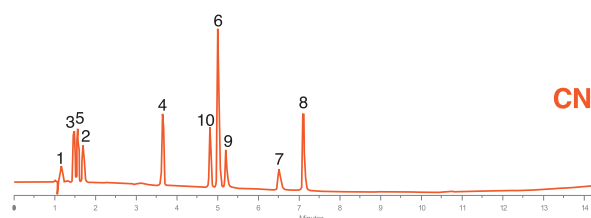
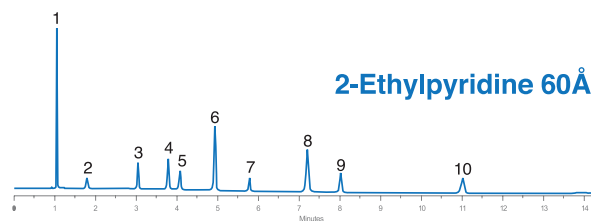
All YMC SFC columns are packed specifically for use in SFC, and are tested under SFC conditions.



Analytical Columns, 4.6 x 250 mm

Packed with 5 μ m particles.
Please inquire about other configurations.

Phase	Pore size (\AA)
Silica SFC	120
2-Ethylpyridine SFC	60
Diol (60 \AA) SFC	60
Diol (120 \AA) SFC	120
DEAP SFC	60
Pyridine Amide SFC	60
Propylacetamide SFC	60
Amino SFC	120
Cyano SFC	120
4-Ethylpyridine SFC	60



Modifier: Methanol w/0.1% diethylamine
Injection volume = 5 μ l
Column: all phases 5 μ m, 4.6 x 250 mm
Column temp. = 40 $^{\circ}$ C

Gradient: 5 to 65% modifier over 12 min
Flow rate = 3.5 ml/min
Outlet pressure = 150 bar
Detection: UV 230 nm

Technical Support

YMC APPLICATION LAB

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ORDERING INFORMATION

S. No.	Column Name	Description	Dimension	Product Code
1	YMC DEAP (SFC) 60A	DEAP is a stationary phase that contains diethylaminopropyl groups. It is basic in nature and can interact with analytes through multiple mechanisms, including ion exchange, polar interactions, and hydrogen bonding	4.6x250mm, 5um	DE06S05-2546PS
			4.6x250mm, 3um	DE06S03-2546PS
			4.6x150mm, 5um	DE06S05-1546PS
			4.6x150mm, 3um	DE06S03-1546PS
			4.6x100mm, 5um	DE06S05-1046PS
			4.6x100mm, 3um	DE06S03-1046PS
			10x250mm, 5um	DE06S05-2510PS
			21x250mm, 5um	DE06S05-2521PS
			30x250mm, 5um	DE06S05-2530PS
2	YMC 2-Ethylpyridine (SFC) 60A	This stationary phase is based on 2-ethylpyridine, providing a slightly basic character. It offers unique selectivity due to π - π interactions and dipole-dipole interactions.	4.6x250mm, 5um	EP06S05-2546PS
			4.6x250mm, 3um	EP06S03-2546PS
			4.6x150mm, 5um	EP06S05-1546PS
			4.6x150mm, 3um	EP06S03-1546PS
			4.6x100mm, 5um	EP06S05-1046PS
			4.6x100mm, 3um	EP06S03-1046PS
			10x250mm, 5um	EP06S05-2510PS
			21x250mm, 5um	EP06S05-2521PS
			30x250mm, 5um	EP06S05-2530PS
3	YMC 4-Ethylpyridine (SFC) 60A	Offers different selectivity to 2-Ethylpyridine	4.6x250mm, 5um	4EP06S05-2546PS
			4.6x250mm, 3um	4EP06S03-2546PS
			4.6x150mm, 5um	4EP06S05-1546PS
			4.6x150mm, 3um	4EP06S03-1546PS
			4.6x100mm, 5um	4EP06S05-1046PS
			4.6x100mm, 3um	4EP06S03-1046PS
			10x250mm, 5um	4EP06S05-2510PS
			21x250mm, 5um	4EP06S05-2521PS
			30x250mm, 5um	4EP06S05-2530PS
4	YMC Propylacetamide (SFC) 60A	Propylacetamide phases are characterized by their propyl-linked acetamide functional groups. They are relatively neutral and exhibit selectivity through hydrophobic and dipole-dipole interactions.	4.6x250mm, 5um	PP06S05-2546PS
			4.6x250mm, 3um	PP06S03-2546PS
			4.6x150mm, 5um	PP06S05-1546PS
			4.6x150mm, 3um	PP06S03-1546PS
			4.6x100mm, 5um	PP06S05-1046PS
			4.6x100mm, 3um	PP06S03-1046PS
			10x250mm, 5um	PP06S05-2510PS
			21x250mm, 5um	PP06S05-2521PS
			30x250mm, 5um	PP06S05-2530PS
5	YMC Pyridine Amide (SFC) 60A	This phase contains pyridine rings attached through amide linkages, offering unique polar selectivity and hydrogen bonding capabilities	4.6x250mm, 5um	PY06S05-2546PS
			4.6x250mm, 3um	PY06S03-2546PS
			4.6x150mm, 5um	PY06S05-1546PS
			4.6x150mm, 3um	PY06S03-1546PS
			4.6x100mm, 5um	PY06S05-1046PS
			4.6x100mm, 3um	PY06S03-1046PS
			10x250mm, 5um	PY06S05-2510PS
			21x250mm, 5um	PY06S05-2521PS
			30x250mm, 5um	PY06S05-2530PS
6	YMC Cyano (CN) (SFC) 60A	Cyano stationary phases have cyano functional groups (-C N), which can engage in dipole-dipole, polar, and moderate hydrophobic interactions.	4.6x250mm, 5um	CN06S05-2546PS
			4.6x250mm, 3um	CN06S03-2546PS
			4.6x150mm, 5um	CN06S05-1546PS
			4.6x150mm, 3um	CN06S03-1546PS
			4.6x100mm, 5um	CN06S05-1046PS
			4.6x100mm, 3um	CN06S03-1046PS
			10x250mm, 5um	CN06S05-2510PS
			21x250mm, 5um	CN06S05-2521PS
			30x250mm, 5um	CN06S05-2530PS
7	YMC Diol (SFC) 60A	Diol phases have two hydroxyl groups, which can participate in hydrogen bonding and dipole-dipole interactions, offering mild polarity, 60A	4.6x250mm, 5um	DP06S05-2546PS
			4.6x250mm, 3um	DP06S03-2546PS
			4.6x150mm, 5um	DP06S05-1546PS
			4.6x150mm, 3um	DP06S03-1546PS
			4.6x100mm, 5um	DP06S05-1046PS
			4.6x100mm, 3um	DP06S03-1046PS
			10x250mm, 5um	DP06S05-2510PS
			21x250mm, 5um	DP06S05-2521PS
			30x250mm, 5um	DP06S05-2530PS
8	YMC Diol (SFC) 120A	Diol phases have two hydroxyl groups, which can participate in hydrogen bonding and dipole-dipole interactions, offering mild polarity, 120A	4.6x250mm, 5um	DL12S05-2546PS
			4.6x250mm, 3um	DL12S03-2546PS
			4.6x150mm, 5um	DL12S05-1546PS
			4.6x150mm, 3um	DL12S03-1546PS
			4.6x100mm, 5um	DL12S05-1046PS
			4.6x100mm, 3um	DL12S03-1046PS
			10x250mm, 5um	DL12S05-2510PS
			21x250mm, 5um	DL12S05-2521PS
			30x250mm, 5um	DL12S05-2530PS
9	YMC Silica (SFC) 60A	Silica is the most basic stationary phase, made of pure silica gel. It primarily separates compounds based on polarity through adsorption and slight polar interactions.	4.6x250mm, 5um	SL06S05-2546PS
			4.6x250mm, 3um	SL06S03-2546PS
			4.6x150mm, 5um	SL06S05-1546PS
			4.6x150mm, 3um	SL06S03-1546PS
			4.6x100mm, 5um	SL06S05-1046PS
			4.6x100mm, 3um	SL06S03-1046PS
			10x250mm, 5um	SL06S05-2510PS
			21x250mm, 5um	SL06S05-2521PS
			30x250mm, 5um	SL06S05-2530PS