

ZODIAC[®]
Life Sciences



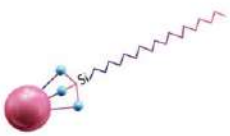
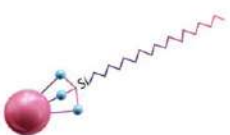
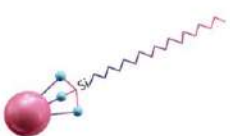
A SOURCE
FOR
CHROMATOGRAPHY CHEMISTS


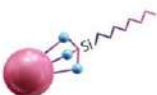
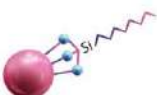
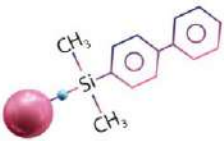
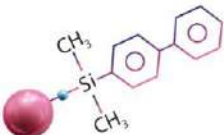
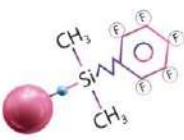
We aspire to offer matchless solutions and contribute to the future of Pharma, Life Sciences and diagnostics by setting a new benchmark in chromatography.



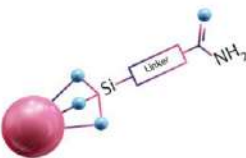




ZODIAC[®] HPLC Columns

- Our deep experience in controlled Silica particle synthesis and superior bonding technology enables us production of ZODIAC HPLC Columns of exceptional high quality.
- Zodiac HPLC Columns are best choice for method development owing to complete bonding chemistries and stable performance.
- High resolution with maximum efficiency and long column life.
- Excellent Column to Column reproducibility.
- Superior ruggedness even under the most demanding conditions.

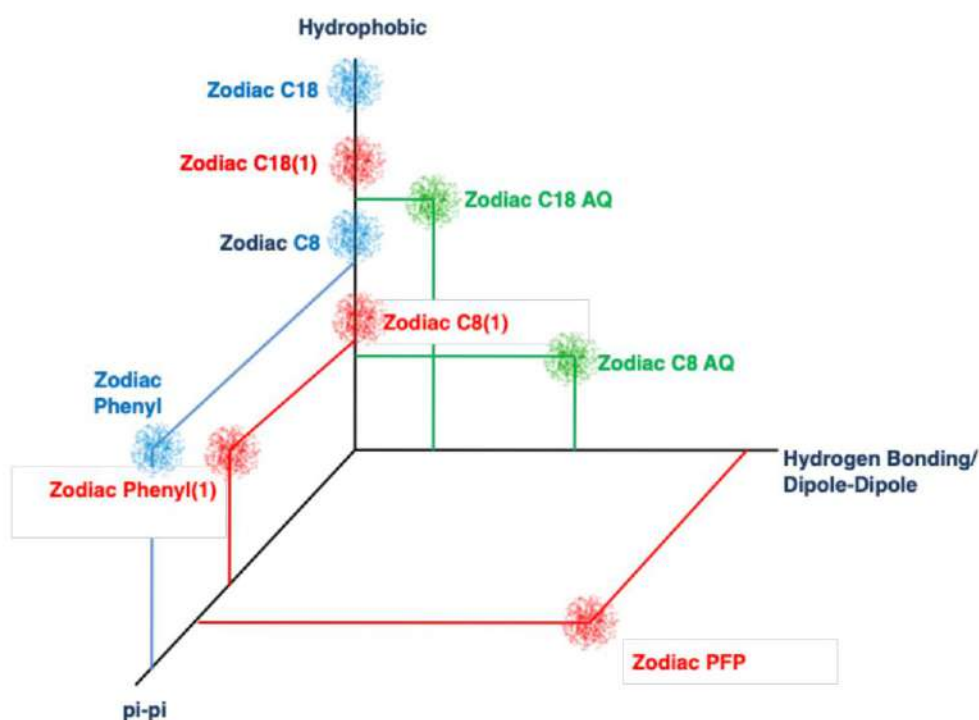


Series	Particle	Features
ZODIAC C18		<ul style="list-style-type: none"> • Highest hydrophobic selectivity among Zodiac series with 24%Carbon load. • General purpose Column, best choice for method development. <p>Selectivity: Best choice for separation of polar compounds.</p>
ZODIAC C18(1)		<ul style="list-style-type: none"> • Has reduced carbon load of 13%to achieve perfect hydrophobic selectivity. • Protective end capping gives the advantage of faster separation and better resolution. <p>Selectivity: Perfect choice for separation of acids, bases, and neutral compounds.</p>
ZODIAC C18(AQ)		<ul style="list-style-type: none"> • Lowest hydrophobic selectivity among C18 series. <p>Selectivity: Stronger retention of hydrophilic polar compounds compared to above C18 series.</p>

Series	Particle	Features
ZODIAC C8		<ul style="list-style-type: none"> • Its an Admirable choice that need marginally more polar phase than C18. • Less hydrophobic column with high surface area and optimum carbon load. <p>Selectivity: Low retentivity of hydrophobic compounds or neutral compounds and hence faster analysis.</p>
ZODIAC C8(1)		<ul style="list-style-type: none"> • Faster separation than C18 column. • Has modified chemistry, reduced carbon load of 8% <p>Selectivity: Yields faster analysis of hydrophobic compounds.</p>
ZODIAC C8(AQ)		<ul style="list-style-type: none"> • Lowest hydrophobic selectivity in C8 series • With more of hydrogen bonding and dipole-dipole interactions. <p>Selectivity: Best choice for polar and hydrophilic compounds</p>
ZODIAC Bi Phenyl		<ul style="list-style-type: none"> • Pi- Pi, interactions and hydrogen bonding in phenyl stationary phase influences solute Pi electrons separating compounds containing isomers <p>Selectivity: enhanced aromatic selectivity for compounds containing rings, conjugated compounds, and ring substituents</p>
ZODIAC Bi Phenyl (1)		<ul style="list-style-type: none"> • With low carbon load less Pi-Pi and hydrophobic interactions compared to Zodiac Phenyl phase • Gives extremely fast separation without any effect on peak symmetry <p>Selectivity: shows selectivity and favorable low retention of aromatic, polar and different pharmaceuticals</p>
ZODIAC PFP		<ul style="list-style-type: none"> • A Pentafluoro phenyl phase with a propyl spacer • Unique aromatic selectivity due to highly electronegative fluorine's attached to phenyl ring. • Gives pi-pi, hydrogen bonding, dipole dipole interactions <p>Selectivity: Towards aromatic, halogenated compounds, and Nitro compound</p>

Series	Particle	Features
ZODIAC Amino		<ul style="list-style-type: none"> Chemically bonded with amino propyl bonded sorbent Has specific pore size of 100Å, high carbon load. Used for Anion exchange, NP, and RP separations <p>Selectivity: Best choice for separation of sugars</p>
ZODIAC Amino (1)		<ul style="list-style-type: none"> Large pore size 190Å Low carbon load. <p>Selectivity: Less retentive when compared with Zodiac Amino Column</p>
ZODIAC RP Amide		<ul style="list-style-type: none"> Particularly well suitable for highly H2O soluble compounds due to polar amide groups An excellent choice when a C18 or C8 phase fails to provide an adequate separation <p>Selectivity: Best choice for analytes with H2 bond donor characteristics, Acids and Basic compounds</p>
ZODIAC Cyano		<ul style="list-style-type: none"> Elutes hydrophobic molecules faster when compared to C18/Phenyl column Can be used in either NP or RP mode <p>Selectivity: Highest selectivity towards polar compounds</p>
ZODIAC Cyano (1)		<ul style="list-style-type: none"> Large pore size of 190Å compared to Zodiac Cyano and low Carbon loading. <p>Selectivity: Low selectivity towards polar compounds when compared to CN Column.</p>
ZODIAC Silica		<ul style="list-style-type: none"> Made of Ultra-pure fully porous silica gel with extremely low acidity and metal content <p>Selectivity: Strong hydrophilic compounds in NP mode with highly nonpolar mobile phase</p>
ZODIAC Silica (1)		<ul style="list-style-type: none"> Large pore size of 190Å pore size compared to Zodiac Si Made of ultra-pure type B silica <p>Selectivity: Hydrophilic compounds</p>

An Overview of Phase Interactions



Series	USP Classification	Particle size	Pore Size (Å)	Carbon Loading %	End - Cap	pH Range
ZODIAC C18	L1	3,5,10	100	24	Yes	1.5-10
ZODIAC C18 (1)	L1	3,5,10	190	12.9	Yes	1.5-10
ZODIAC C18(AQ)	L1	3,5,10	120	17	Yes	1.5-10
ZODIAC C8	L7	3,5,10	100	15	Yes	1.5-10
ZODIAC C8(1)	L7	3,5,10	190	7.4	Yes	1.5-10
ZODIAC C8(AQ)	L7	3,5,10	120	10	Yes	1.5-10
ZODIAC Phenyl	L11	3,5,10	100	14	Yes	1.5-8
ZODIAC Phenyl (1)	L11	3,5,10	190	7.4	Yes	1.5-8
ZODIAC PFP	L43	3,5,10	190	15	Yes	2-8
ZODIAC Amino	L8	3,5,10	100	10	Yes	2-7
ZODIAC Amino (1)	L8	3,5,10	190	8	Yes	2-7
ZODIAC RP Amide	L60	3,5,10	120	15	Yes	2-8
ZODIAC Cyano	L10	3,5,10	100	15	Yes	2-7.5
ZODIAC (1) Cyano	L10	3,5,10	190	12	Yes	2-7.5
ZODIAC Silica	L3	3,5,10	100	0	No	2-6
ZODIAC Silica (1)	L3	3,5,10	190	0	No	2-6