

Agilent HPLC Columns – Zorbax Columns

Zorbax Gel Filtration Columns

- Rapid separations and extended column life time – often twice that of other size exclusion columns
- High recovery for most proteins (>90%)
- Usable with organic modifiers and denaturants
- pH range of 3.0-8.0

The silica surface of the Zorbax Gel Filtration columns is stabilized with zirconia, then coated with a monolayer diol phase providing a broad pH range of 3-8 – a highly reproducible, hydrophilic column.

Zorbax Gel Filtration Column Specifications

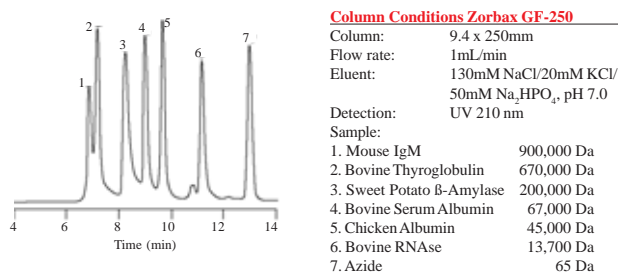
Bonded Phase	Pore Size	Particle Size	MW Range	Surface Area
GF-250	150Å	4µm	4,000-400,000	140m ² /g
GF-450	300Å	6µm	10,000-900,000	50m ² /g

Additional Specifications for Both Gel Filtration Columns

Bonded Phase	pH Range	Flow Rate	Max Pressure
GF-250 and GF-450	3.0-8.0	<3.0mL/min	5,000 psi

Separation of a Protein Mixture

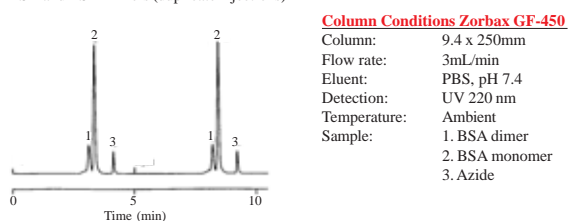
Zorbax GF-250 Column



High-Speed Size Exclusion Separation

Zorbax GF-450 Column

BSA and BSA Dimers (duplicate injections)



Zorbax Gel Filtration Columns

Dimensions (mm)	150Å GF-250	300Å GF-450
9.4 x 250	884973-901	884973-902
4.6 x 250	884973-701	

Guard Cartridges (requires hardware kit)

9.4 x 15, 2/pk	820675-111	820675-111
4.6 x 12.5, 4/pk	820950-911	820950-911

Guard Hardware Kit

Hardware kit for 9.4 ID	840140-901	840140-901
Hardware kit for 4.6 ID	820888-901	820888-901

Zorbax Ion Exchange Columns

Zorbax ion exchange columns (70Å SAX and 300Å SCX) use Zorbax SIL porous silica microspheres as the stationary phase support; ion exchange groups are attached to a diol backbone. These columns provides highly efficient, rapid separations (pressure limit 5,000 psi).

- SCX uses aromatic sulfonic acid
- SAX uses a trifunctional quaternary amine

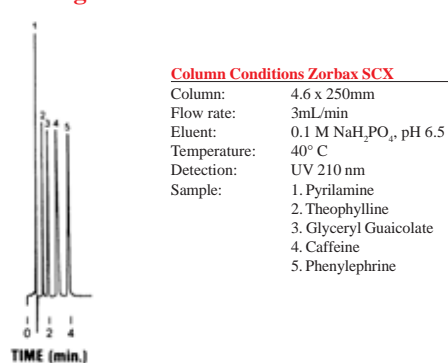
Typical Applications:

- SCX basic water soluble compounds
- SAX aromatic carboxylic acids, aliphatic carboxylic acids, and sulfonic acids

Zorbax Ion Exchange Columns

Bonded Phase	Pore Size	Particle Size	Surface Area	pH Range	Bonded Functionality
SCX	300Å	5µm	50m ² /g	2.0 - 7.0	Sulfonic acid
SAX	70Å	5µm	300m ² /g	2.0 - 7.0	Quaternary amine

Cough-cold Remedies – Zorbax SCX



Zorbax Ion Exchange Columns

Dimensions (mm)	SAX (70Å)	SCX (300Å)
9.4 x 250	880952-203	880952-204
4.6 x 250	880952-703	880952-704
4.6 x 150	883952-703	883952-704
4.6 x 50		846952-704
3.0 x 50		860700-304
2.1 x 150		883700-704
2.1 x 50		860700-704

Guard Cartridges, 4/pk (requires hardware kit 820888-901)

4.6 x 12.5	820950-903	820950-904
Hardware kit	820888-901	820888-901

Guard Hardware Kit

Hardware kit	820888-901	820888-901
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