

## Ion-Exchange Columns

### ZORBAX Ion-Exchange Columns – SAX and SCX

- ZORBAX SAX and 300SCX columns are based on rugged ZORBAX silica
- Stable from pH 2-7
- Provide high efficiency, rapid separations
- Compatible with organic mobile phase modifiers

Agilent ZORBAX Strong Ion-Exchange columns are available as both Strong Anion-Exchange (SAX) and Strong Cation-Exchange (300SCX) columns. Each column is packed with bonded, 5 µm, spherical silica particles for optimum efficiency.

ZORBAX SAX packing has a permanently bonded quaternary amine. A trifunctional organo-silane reagent is used in producing this packing to maximize its stability with aqueous mobile phases. This column is ideal for separation of water-soluble compounds such as aromatic and aliphatic carboxylic acids and sulfonic acids.

ZORBAX SCX packing has 300Å pore size silica particles chemically bonded to an aromatic sulfonic acid group. This column is used for separations of basic, water-soluble compounds and bio-molecules.

#### Column Specifications

Bonded Phase	Pore Size	Surface Area	pH Range	Functionality	Max Pressure
ZORBAX SAX	70Å	300 m <sup>2</sup> /g	2.0-7.0	Quaternary amine	350 bar
ZORBAX 300SCX	300Å	50 m <sup>2</sup> /g	2.0-7.0	Sulfonic acid	350 bar

Specifications represent typical values only.



031 336 90 00 • [www.scantecnordic.se](http://www.scantecnordic.se)

**Cough/cold remedies on ZORBAX 300SCX**

**Column:** ZORBAX 300SCX  
880952-704  
4.6 x 250 mm, 5 µm

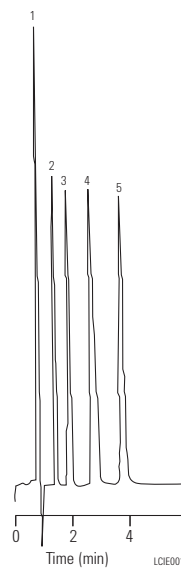
Mobile Phase: 100 mM NaH<sub>2</sub>PO<sub>4</sub> (pH 6.5)

Flow Rate: 3 mL/min

Temperature: 20 °C

Detector: 210 nm

Sample: Cold remedies



1. Pyrilamine
2. Theophylline
3. Glyceryl Guaiacolate
4. Caffeine
5. Phenylephrine

**ZORBAX Ion-Exchange Columns – SAX and SCX**

Description	Size (mm)	Particle Size (µm)	Particle Size	
			SAX	300SCX
Semi-preparative	9.4 x 250	5	880952-203	880952-204
Analytical	4.6 x 250	5	880952-703	880952-704
Analytical	4.6 x 250	5		880952-714*
Analytical	4.6 x 150	5	883952-703	883952-704
Analytical	4.6 x 150	5		883952-714*
Analytical	4.6 x 50	5		846952-704
Solvent Saver	3.0 x 50	5		860700-304
Narrow Bore	2.1 x 150	5		883700-704
Narrow Bore	2.1 x 150	5		883700-714*
Narrow Bore	2.1 x 50	5		860700-704
Guard Hardware Kit			820999-901	820999-901

\*These columns have been modified to provide less retention, for those who desire that in their application.