

VertiSep™ Cation CX1

- Separate Mono and Divalent Cations on Nonsuppressed or Suppressed IC
- Separate Transition Metals without Post Column Reaction
- Separate alkylamines
- Compatible with Variety of Mobile Phases

VertiSep™ Cation CX1 column is packed with hydrophilic copolymer with carboxyl functional groups providing higher pH stability on very low pH eluents over silica-based cation columns.

VertiSep™ Cation CX1 column separates Group I and Group II cations in one run under isocratic conditions. It can separate transition metals without post column reaction and UV detection. It can also separate various Alkylamines such as Methylamine, Trimethylamine and Triethylamine.

VertiSep™ Cation CX1 column is compatible with a variety of mobile phases including complexing acids (Citric Acid, Tartaric Acid, Oxalic Acid), mineral acids (Nitric Acid, Hydrochloric Acid, Sulfuric Acid) and Noncomplexing Organic Acids (Methanesulfonic Acid).

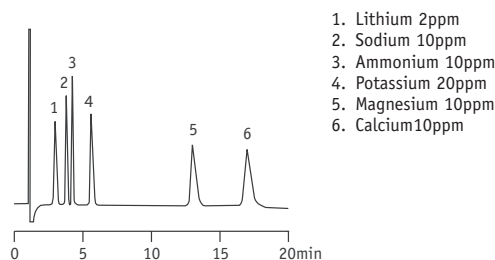
Specifications

Base material	Hydrophilic copolymer
Functional group	Carboxyl
Particle Size	5µm
Mobile phase limits	pH 3-12, 0-100% Organic modifier

Ordering Information

Description	QTY	Part No.
VertiSep™ Cation CX1 Columns		
4.6x125mm	1	03R9-EC21
VertiSep™ Cation CX1 Guards		
Guard Cartridge, 4.0x10mm, PEEK	2	03R9-D113
Guard Holder	1	0300-0001

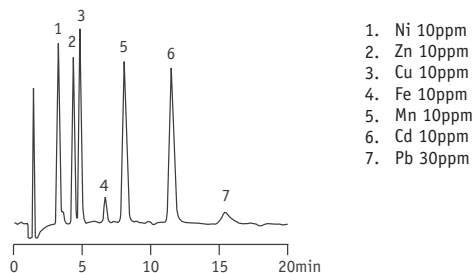
Monovalent and Divalent Cations



Column: VertiSep™ Cation CX1, 4.6x125mm
 Mobile Phase: 4mM Methanesulfonic acid
 Flow Rate: 1.0mL/min
 Temp: 40 °C
 Detection: Nonsuppressed Conductivity

1. Lithium 2ppm
2. Sodium 10ppm
3. Ammonium 10ppm
4. Potassium 20ppm
5. Magnesium 10ppm
6. Calcium 10ppm

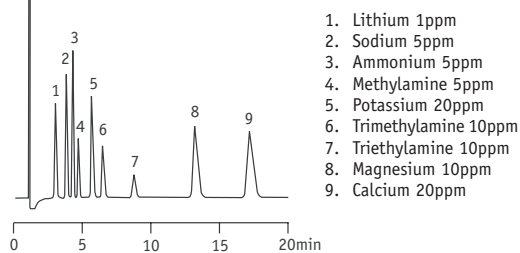
Transition Metals



Column: VertiSep™ Cation CX1, 4.6x125mm
 Mobile Phase: 6mM Tartaric acid + 4mM Oxalic acid
 Flow Rate: 1.0mL/min
 Temp: 40 °C
 Detection: Nonsuppressed Conductivity

1. Ni 10ppm
2. Zn 10ppm
3. Cu 10ppm
4. Fe 10ppm
5. Mn 10ppm
6. Cd 10ppm
7. Pb 30ppm

Cations and Alkylamines



Column: VertiSep™ Cation CX1, 4.6x125mm
 Mobile Phase: 4mM Methanesulfonic acid
 Flow Rate: 1.0mL/min
 Temp: 40 °C
 Detection: Nonsuppressed Conductivity

1. Lithium 1ppm
2. Sodium 5ppm
3. Ammonium 5ppm
4. Methylamine 5ppm
5. Potassium 20ppm
6. Trimethylamine 10ppm
7. Triethylamine 10ppm
8. Magnesium 10ppm
9. Calcium 20ppm