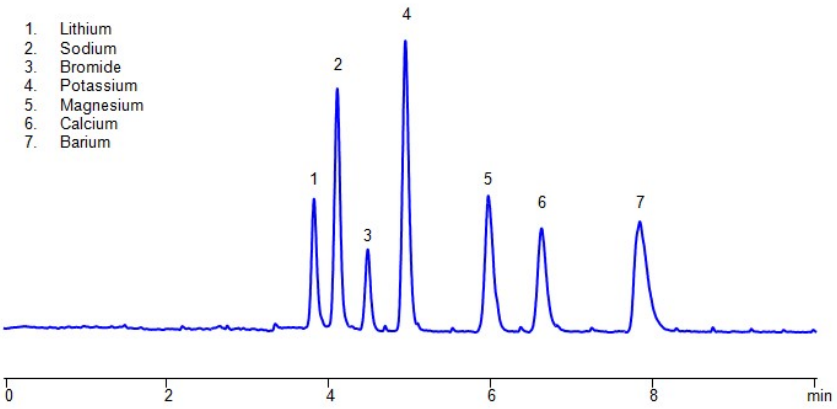
HPLC ELSD Method for Separation of Metal Ions on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 × 250 mm, 5 µm
Column part number:	100-46.250.0510
Mobile phase:	MeCN /H_2O – 70/30%
Buffer:	TFA – 0.4%
Flow rate:	1.0 mL /min
Sample:	Mixture of metal ions
Injection volume:	1 µl
Detection:	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)

Primesep 100 separates the monovalent cations, lithium, potassium, and sodium, and the divalent cations, zinc, manganese, and calcium. The cations are resolved by cation exchange. The mobile phase mixture of water, acetonitrile (MeCN, ACN) and trifluoroacetic acid (TFA) is evaporative light scattering detection (ELSD) compatible.

Method Parameters

Column	Primesep 100, 4.6×250 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O – 70/30%
Buffer	TFA- 0.4%
Flow Rate	1.0 mL/min
Detection	ELSD50C

Quelle: https://sielc.com/application-separation-of-metal-ions-on-primesep-100-column