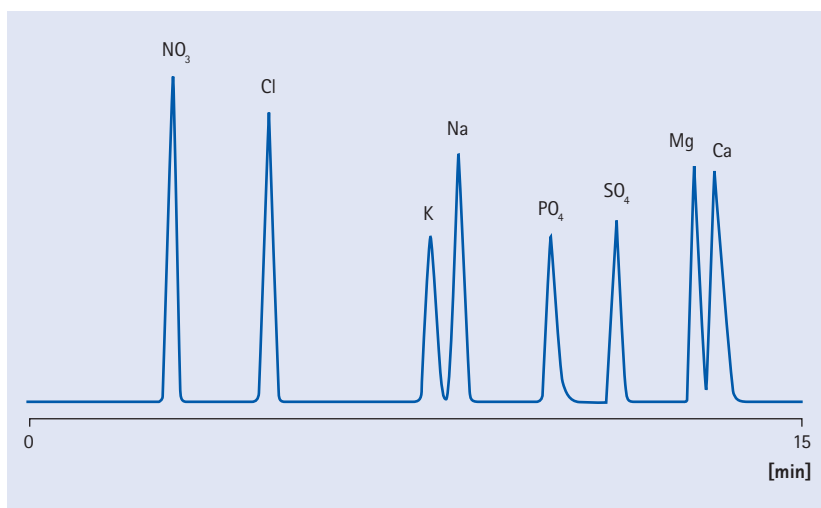


Separation of inorganic anions and cations

Column	ZIC®-HILIC 150 x 2.1 mm, 3.5 µm, 100 Å [Ord. No. 1.50442.0001]		
Mobile phase	A: Acetonitrile B: 20 mM Ammonium Formate, pH 3		
Gradient	Time [min]	% A	% B
	0.0	80	20
	3.0	80	20
	10.0	20	80
	13.0	20	80
	13.1	80	20
	23.0	80	20
Flow rate	0.3 mL/min		
Detection	ELSD, SEDEX 85LT, 40°C, 3.5 bar		
Temperature	40°C		
Injection volume	2 µL		
Sample	1.-8.	LOD [based on S/N=3]	
	1. NO ₃	2.6 mg/L	
	2. Cl	2.3 mg/L	
	3. K	5.1 mg/L	
	4. Na	0.9 mg/L	
	5. PO ₄	15.8 mg/L	
	6. SO ₄	2.4 mg/L	
	7. Mg	0.3 mg/L	
	8. Ca	0.7 mg/L	

Courtesy of *Eric Verette, SEDERE S.A.S, France*



Separation of amino acids

Column	ZIC®-HILIC 150 x 4.6 mm, 3.5 µm, 100 Å [Ord. No. 1.50444.0001]	
Mobile phase	80 % Acetonitrile 20 % Ammonium acetate in water, 50 mM pH adjusted to 4.5 with formic acid	
Flow rate	0.75 mL/min	
Detection	Refractive Index, cell 9 µL, 40°C	
Temperature	40°C	
Injection volume	50 µL	
Sample	1. 2-Amino-5-Hydroxy benzoic acid	100 ppm
	2. Tryptophan	100 ppm
	3. Isoleucine	100 ppm
	4. Methionine	100 ppm
	5. Lysine	100 ppm
	6. Threonine	100 ppm

Courtesy of *Gora Sharangi, Merck India Application Lab*

