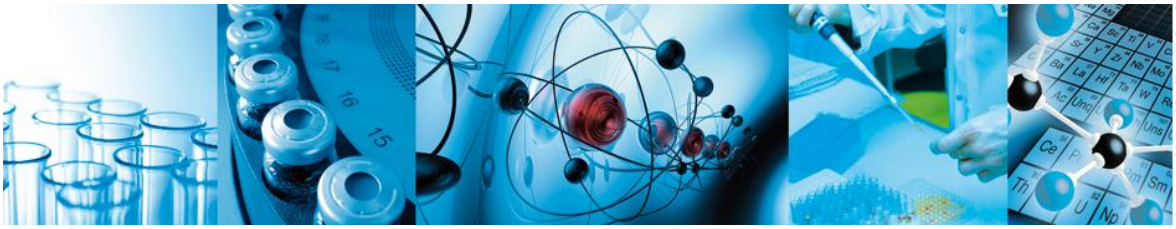


WynSep
What you need in separation

Determination of 7 inorganic anions in soda

A smart sample prep with single degassing

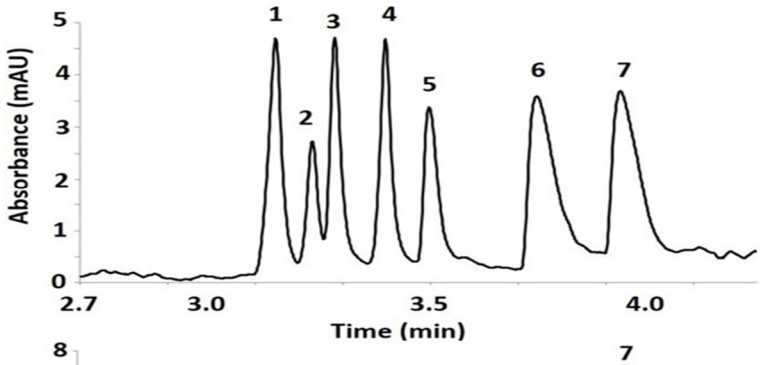
INTRODUCTION

Determination of chloride, nitrate, nitrite, bromide, sulfate, phosphate, and fluoride anions in soda sample using Wyn-CE capillary electrophoresis system with indirect UV detection using a chromate-based electrolyte.

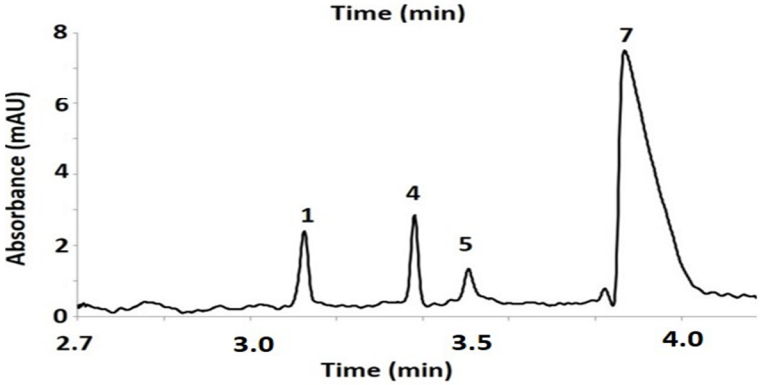
STANDARD AND REAL ANALYSIS

Buffer : Chromate + TTAOH (EOF modifier) + CHES + Ca-gluconate, pH 9.0.
Capillary : bare-fused silica, L = 60 cm, l = 52 cm, ID = 75 µm
Injection : hydrodynamic, 50 mbar, 3 s
Voltage : -15 kV
Detection : 254 nm, indirect
Temperature : 25 °C

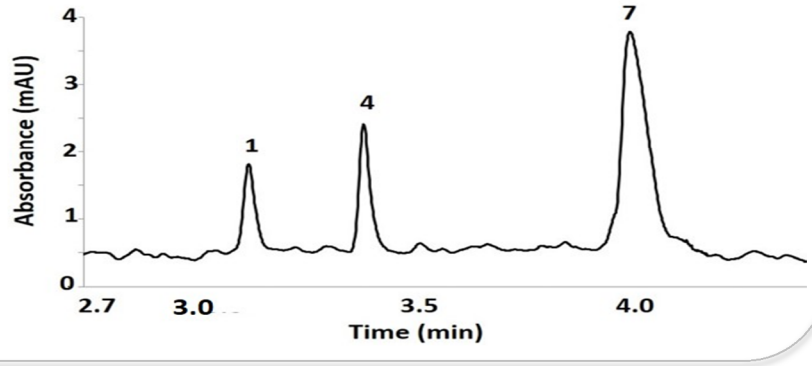
Standard sample :
1-chloride ; 2-bromide ; 3-nitrite ;
4- sulfate ; 5-nitrate ; 6- fluoride ;
7- phosphate. Concentration : 15 mg/L
(except Fluoride : 7 mg/L)



Cola sample :
(Dilution 1/8)
1-chloride (7 mg/L) ;
4- sulfate (8 mg/L);
5-nitrate (3 mg/l)
7- phosphate (430 mg/L)



Orange soda sample :
(Dilution 1/12)
1-chloride (5 mg/L) ;
4- sulfate (8 mg/L)
7- phosphate (207 mg/L)



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