

IC Application Note No. S-212

Title: Fluorophosphate in effervescent tablets

Summary: Determination of fluorophosphate in effervescent tablets using anion chromatography with conductivity detection after chemical suppression applying a step gradient to elute strongly retained components.

Sample: Effervescent tablets

Sample Preparation: 1 tablet is dissolved in ultrapure water

Column: 6.1020.050 Metrosep A Supp 10 – 50

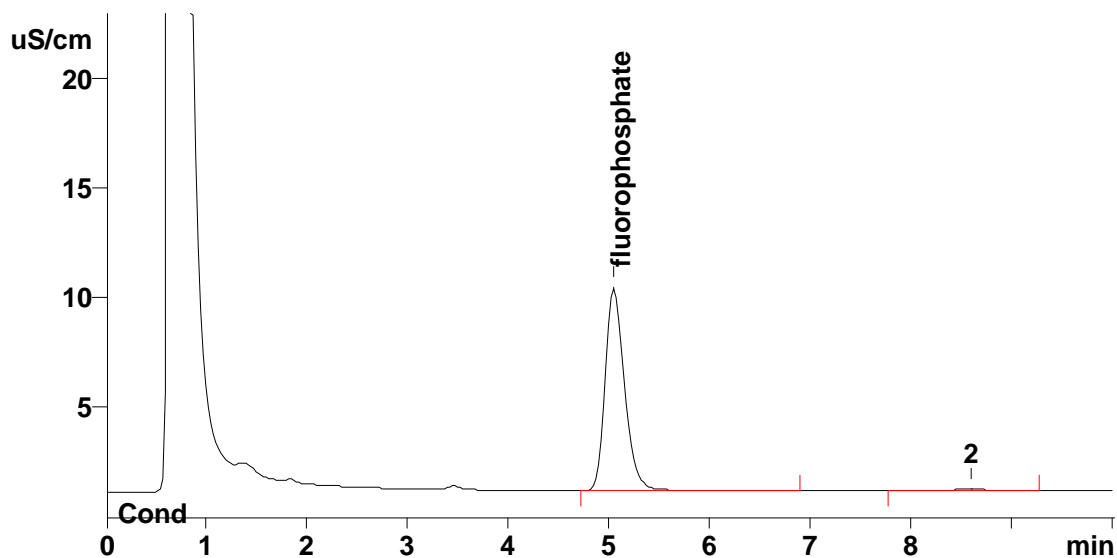
Eluent 1: 3.2 mmol/L sodium carbonate
1.0 mmol/L sodium hydrogencarbonate

Eluent 2: after 10 min 20 mmol/L sodium carbonate
1.0 mmol/L sodium hydrogencarbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L sulfuric acid)

Flow: 1.0 mL/min

Injection Volume: 20 μ L



Results:

	Fluorophosphates (FPO_3^{2-})
mg/L	57.4
RSD % (n=6)	0.27
Recovery %	100.7