

## IC Application Note No. S-128

Title:	Chlorate, nitrate and perchlorate in firecracke		
	powder		

**Summary:**Determination of chlorate, nitrate and perchlorate in firecracker powder using anion chromatography with conductivity detection after chemical suppression.

Sample:Firecracker powderSample Preparation:1 g of sample suspended in ultrapure water,<br/>dilution 1 : 20, injection after filtration through 0.45 μm

**Column:** 6.1006.430 Metrosep A SUPP 4-250

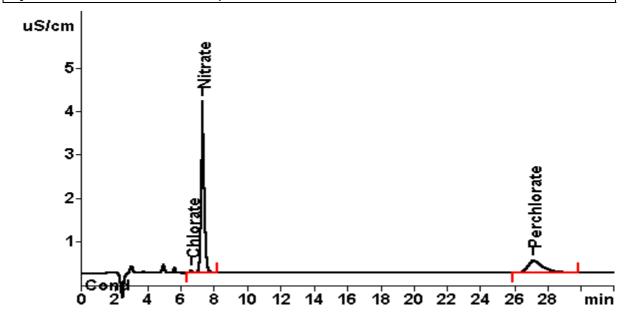
**Eluent:** 1.9 mmol/L sodium hydrogencarbonate,

1.9 mmol/L sodium carbonate, 5% acetonitrile

**Suppressor:** MSM (50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

*Flow:* 1.0 mL/min

*Injection Volume:* 20 µL



Results:	Chlorate	Nitrate	Perchlorate
	mg/g	mg/g	mg/g
	1.718	66.18	43.61