

Title:

IC Application Note No. C-116

Sodium and potassium in toothpaste

Summary:	Determination of sodium and potassium in toothpaste
	using cation chromatography with direct conductivity
	detection

Sample:ToothpasteSample Preparation:Dissolve 1.0 g of sample in 100 g eluent, subsequently dilute 12 mL of this solution up to 100 mL with eluent, injection after filtration (0.45 μm).

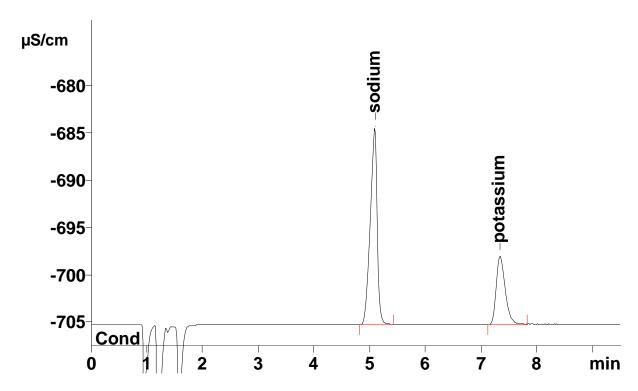
Column: 6.1050.420 Metrosep C 4 – 150

Eluent: 1.7 mmol/L nitric acid

0.7 mmol/L dipicolinic acid

Flow: 1.0 mL/min

Injection Volume: 10 μL



Results:	Sodium	Potassium
In the diluted solution (mg/L)	26.01	22.34
In the toothpaste (%)	2.21	1.90