

IC Application Note No. C-28

Title: Four cations in instant baby milk powder using Dialysis as Sample Preparation

Summary: Determination of sodium, potassium, calcium and magnesium in instant baby milk powder using cation chromatography with direct conductivity detection and dialysis as sample preparation.

Sample: Instant baby milk powder

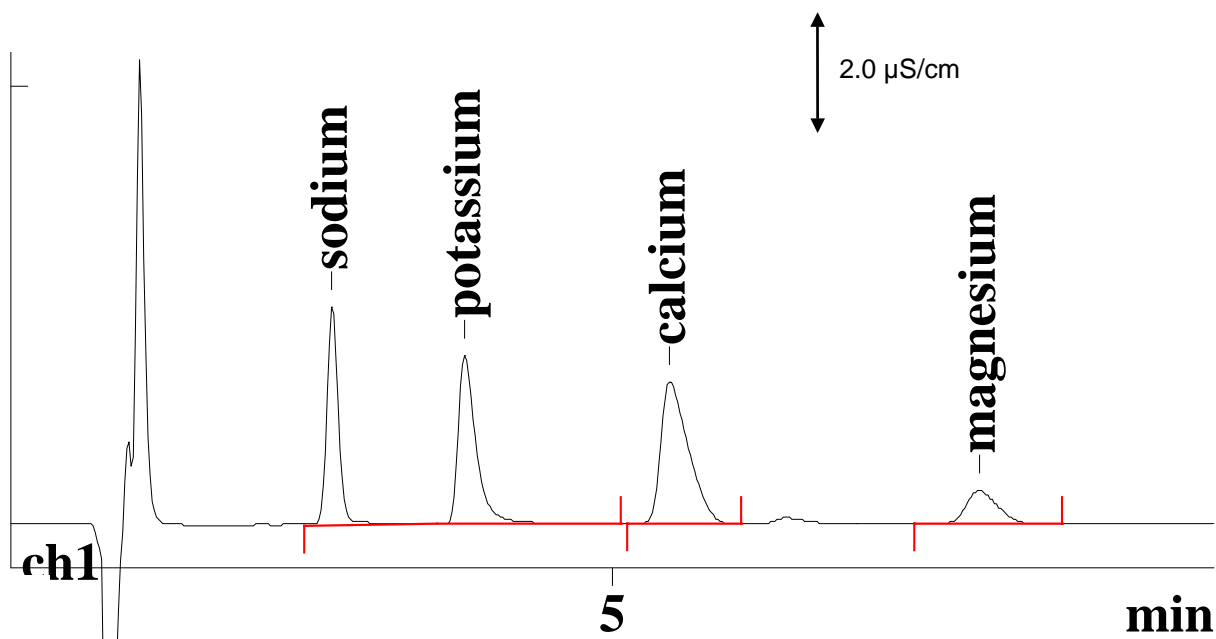
Sample Preparation: 0.5 g/250 mL of 2.5 mmol/L HNO₃, injection using 754 Dialysis Unit (acceptor solution: 2 mmol/L HNO₃)

Column: 6.1010.000 Metrosep Cation 1-2

Eluent: 4 mmol/L tartaric acid, 1 mmol/L dipicolinic acid

Flow: 1.0 mL/min

Injection Volume: 20 µL after dialysis



Results:	Na ⁺ mg/g	K ⁺ mg/g	Ca ²⁺ mg/g	Mg ²⁺ mg/g
		2.46	6.18	4.89