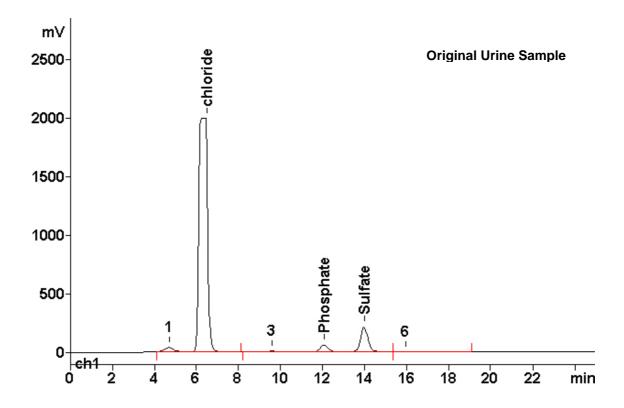
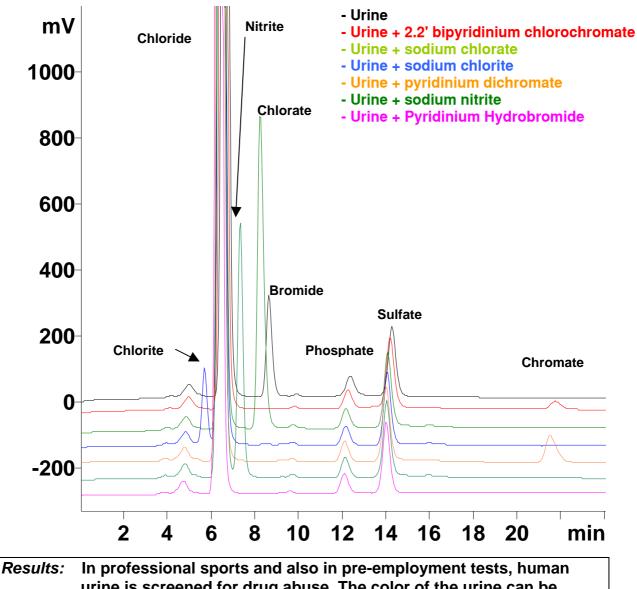
IC Application Note No. S-215

Title:	Qualitative determination of anions in urine to verify adulteration
Summary:	Qualitative determination of chloride, phosphate and sulfate as well as chlorite, nitrite, chlorate, bromide and chromate in urine using anion chromatography with conductivity detection after chemical suppression.
Sample:	Urine
Sample.	Onne
Sample Preparation:	Dilution 1 : 10 with ultrapure water
Column:	6.1006.530 Metrosep A Supp 5 – 250
Eluent:	3.2 mmol/L sodium carbonate1.0 mmol/L sodium hydrogencarbonate1% acetonitrile
Suppressor:	Metrohm Suppressor Module (MSM, 100 mmol/L sulfuric acid)
Flow:	0.7 mL/min
Injection Volume:	20 µL





urine is screened for drug abuse. The color of the urine can be simulated by adding one of the components above to water. Sometimes hypochlorite salts are also added to the water to simulate urine. This application demonstrates the power of lon Chromatography to verify salt adulteration in urine.