

## IC Application Note No. U-24

Title:	Vanadium speciation applying Ion	
	Chromatography with UV/VIS detection	

**Summary:**Determination of vanadium(IV) and vanadium(V) in Benfield solution using anion chromatography with UV detection.

Sample:Benfield solutionSample Preparation:Dilution 1:1000 with eluent

Column: 2 x 6.1006.500 Metrosep A Supp 4/5 Guard

Wavelength: 282 nm

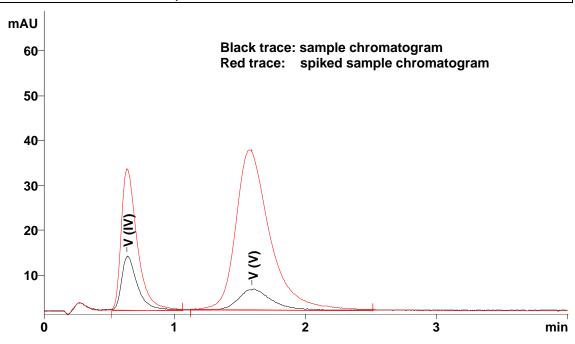
Eluent: 12 mmol/L sodium hydrogen carbonate

4 mmol/L sodium carbonate

20 mmol/L EDTA

*Flow:* 0.7 mL/min

*Injection Volume:* 20 µL



Results:	Vanadium(IV)	Vanadium(V)
Sample (mg/L)	6.017	0.701
Spike (mg/L)	10.0	5.0
Recovery (%)	96	98