

IC Application Note No. C-105

Title: Copper, zinc, iron(II) and manganese in wine by ion chromatography with post-column reaction and UV/VIS detection

Summary: Determination of copper, zinc, iron(II) and manganese in red wine using cation chromatography with UV/VIS detection after post-column reaction with PAR.

Sample: Red wine

Sample Preparation: Dilution 1:25 with 20 mmol/L ascorbic acid

Column: 6.1010.220 Metrosep C 2 – 150

Eluent: 1.75 mmol/L oxalic acid
2.0 mmol/L ascorbic acid

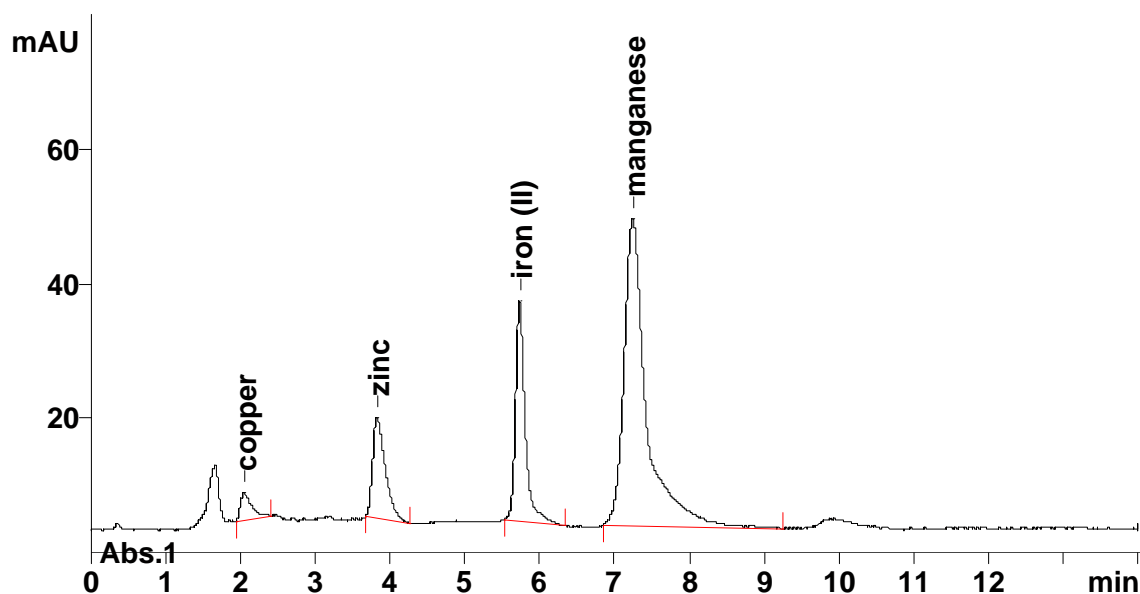
PCR reagent: 0.2 mmol/L PAR, 2.4 mol/L ammonia,
1.0 mol/L acetic acid

Wavelength: 500 nm

Flow: 1.0 mL/min

PCR Flow: 0.5 mL/min

Injection Volume: 100 μ L



Results:	Copper μ g/L	Zinc μ g/L	Iron(II) μ g/L	Manganese μ g/L
		260	970	3340