

IC Application Note No. C-74

Title: Trimethylamine in hydrogen peroxide (H₂O₂)

Summary: Determination of trimethylamine in hydrogen peroxide (31 %) using cation chromatography with direct conductivity detection after inline matrix elimination, inline preconcentration and inline calibration.

Sample: Hydrogen peroxide (31%)

Sample Preparation: Dilution 1 : 5 with ultrapure water

Column: 6.1010.210 Metrosep C 2 – 100

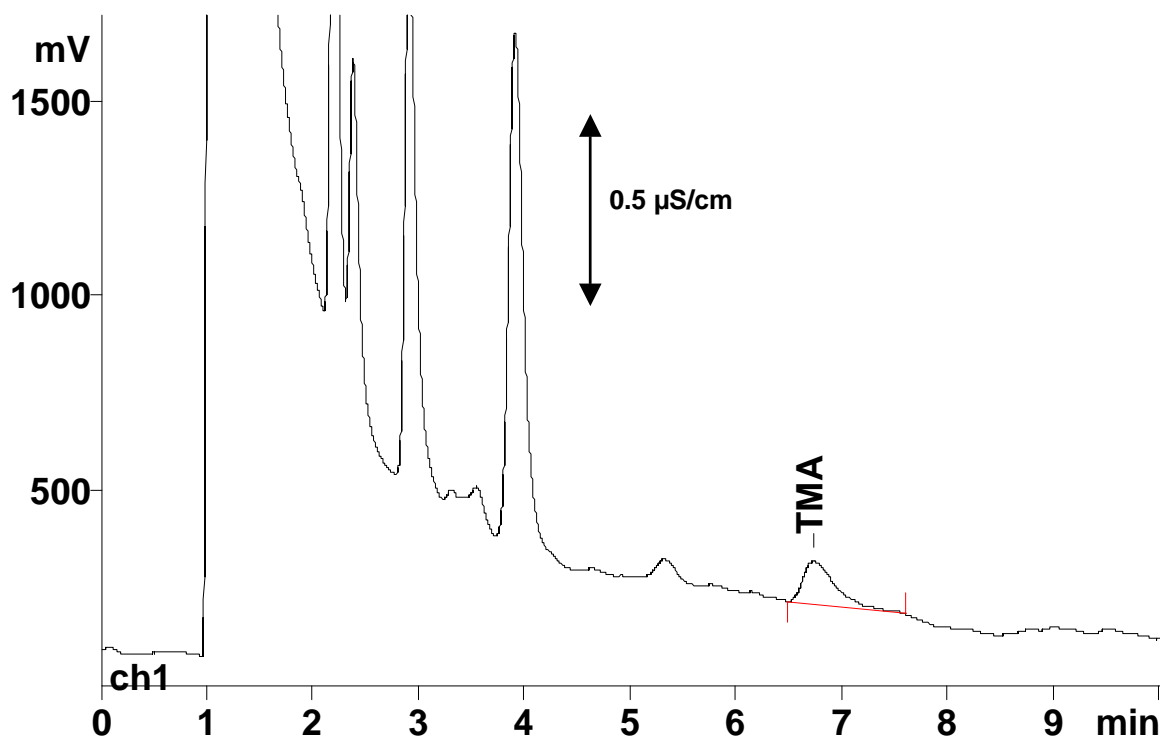
Preconcentration: 6.1010.310 Metrosep C PCC 1 HC

Eluent: 5 mmol/L sulfuric acid

Flow: 1.0 mL/min

Injection Volume: 11 mL

Inline Calibration: 10, 20 and 30 µL of a 3 mg/L trimethylamine solution



Results: Spiked; original sample < 1 µg/L	Trimethylamine µg/L
	6.0