

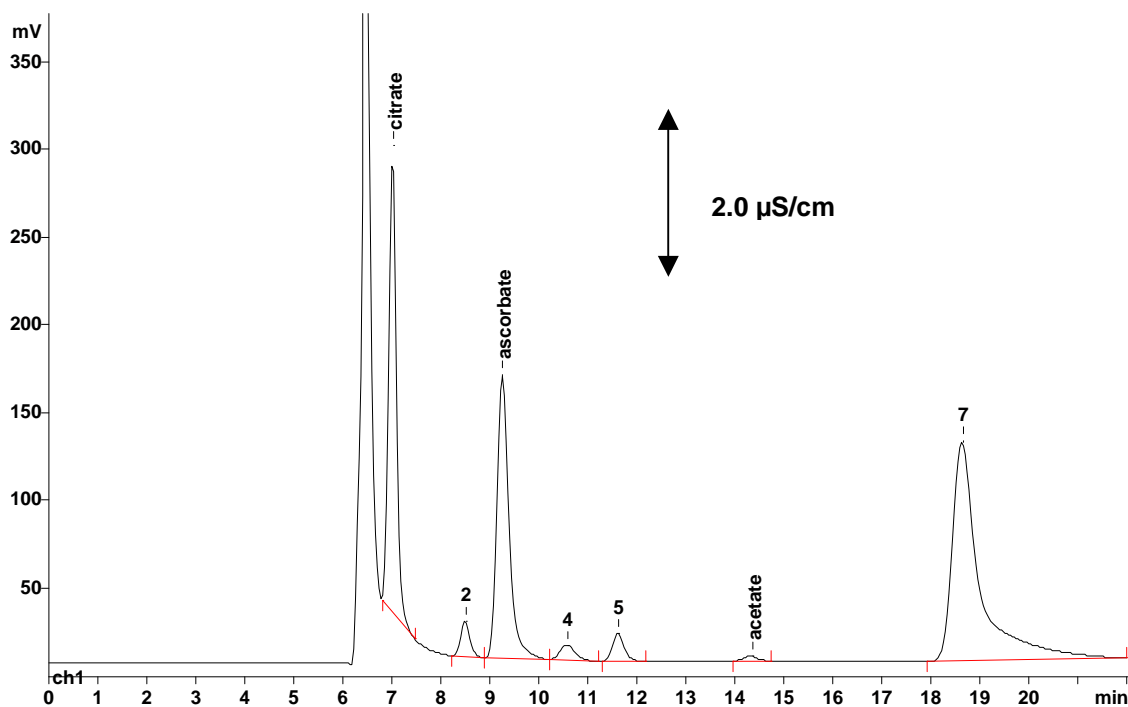
IC Application Note No. O-28

Title: Citrate, ascorbate and acetate in photographic developer solution

Summary: Determination of citrate, ascorbate and acetate in photographic developer solution using ion exclusion chromatography with suppressed conductivity detection.

Sample: Photographic developer solution
Sample Preparation: 1 : 500 dilution in 0.5 mmol/L HClO₄, injection through IC-H cartridge

Column: 6.1005.200 Metrosep Organic Acids
Eluent: 0.5 mmol/L perchloric acid
Flow: 0.5 mL/min
Suppressor: MSM (10 mmol/L lithium chloride)
Injection Volume: 20 µL



| Results: | Citrate g/L | Ascorbate g/L | Acetate g/L |
|-----------------|----------------|------------------|------------------|
| | 6.00 | 20.7 | < 0.25 |