

IC Application Note No. O-27

Title: Citrate, succinate, lactate, β -hydroxybutyrate and acetate in dry albumin powder using dialysis as sample preparation

Summary: Determination of citrate, succinate, lactate, β -hydroxybutyrate and acetate in dry albumin powder using ion exclusion chromatography with suppressed conductivity detection and dialysis as inline sample preparation.

Sample: Dry albumin powder

Sample Preparation: 2 g sample is dissolved in 100 mL ultrapure water, further dilution 1 : 5 with 0.5 mmol/L HClO₄

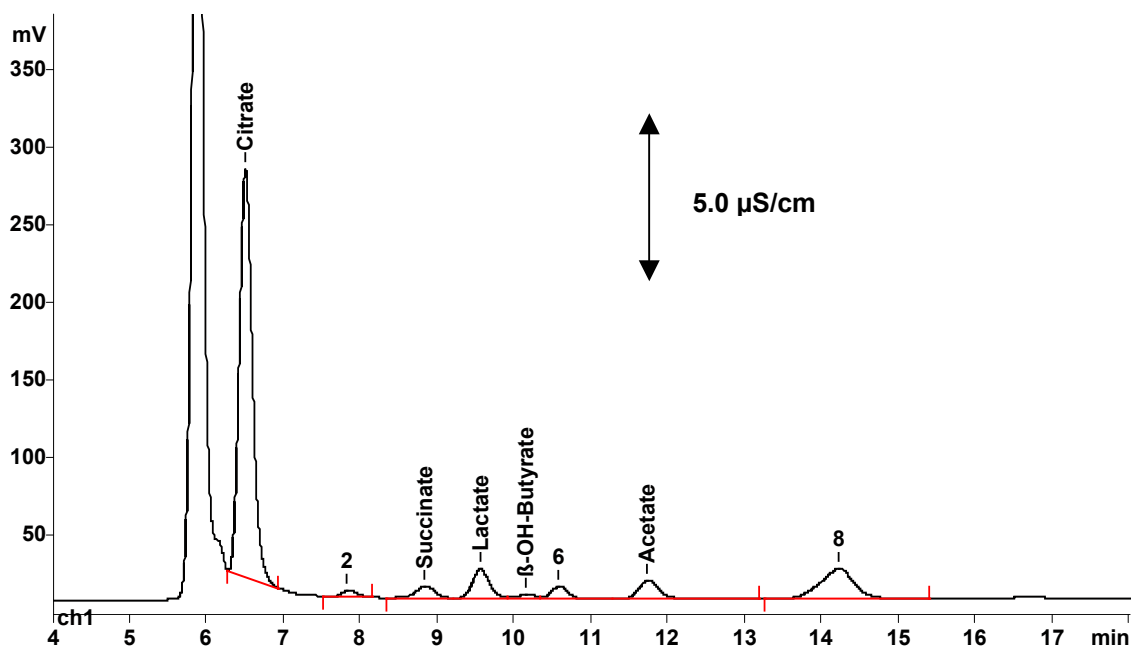
Column: 6.1005.200 Metrosep Organic Acids

Eluent: 0.5 mmol/L perchloric acid, 15 % acetone

Flow: 0.5 mL/min

Suppressor: MSM (10 mmol/L lithium chloride)

Injection Volume: 20 μ L



Results:	Citrate	Succinate	Lactate	β -OH-Butyrate	Acetate
mg/L	260.2	12.0	35.8	10.0 (spiked)	18.4
g/kg	13.79	0.638	1.90		0.976