

IC Application Note No. C-127

Title: Benzylamine in a beta blocker

Summary: Determination of benzylamine in a beta blocker (Nebivolol) using cation chromatography with direct conductivity detection. A step gradient for fast elution of the main component is applied.

Sample: Nebivolol

Sample Preparation: 125 mg sample dissolved in 3 mmol/L nitric acid, direct injection after filtration (0.2 µm)

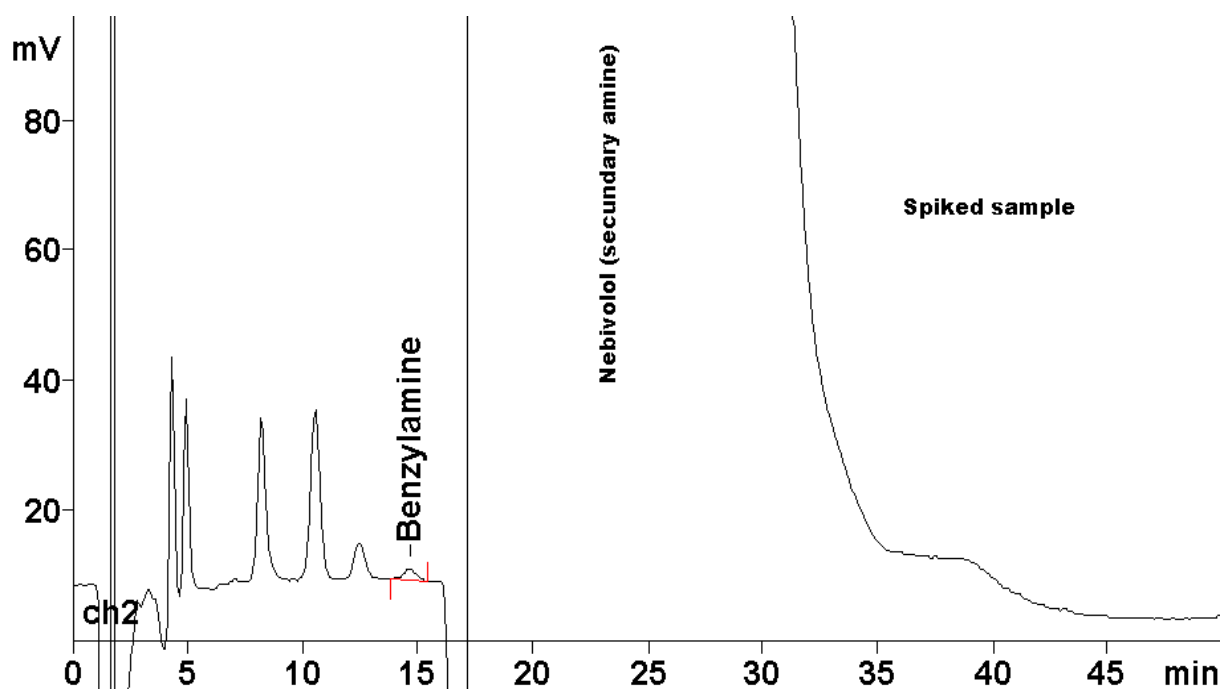
Column: 6.1010.220 Metrosep C 2 – 150

Eluent A (0...18 min): 2 mmol/L nitric acid, 0.7 mmol/L dipicolinic acid
0.3 mmol/L 18-Crown-6, 5% acetonitrile

Eluent B (18...28 min): 2 mmol/L nitric acid, 0.7 mmol/L dipicolinic acid
0.3 mmol/L 18-Crown-6, 50% acetonitrile

Flow: 1.0 mL/min

Injection Volume: 100 µL



Results:	Benzylamine mg/L
Sample	n.d.
Spiked sample	0.10