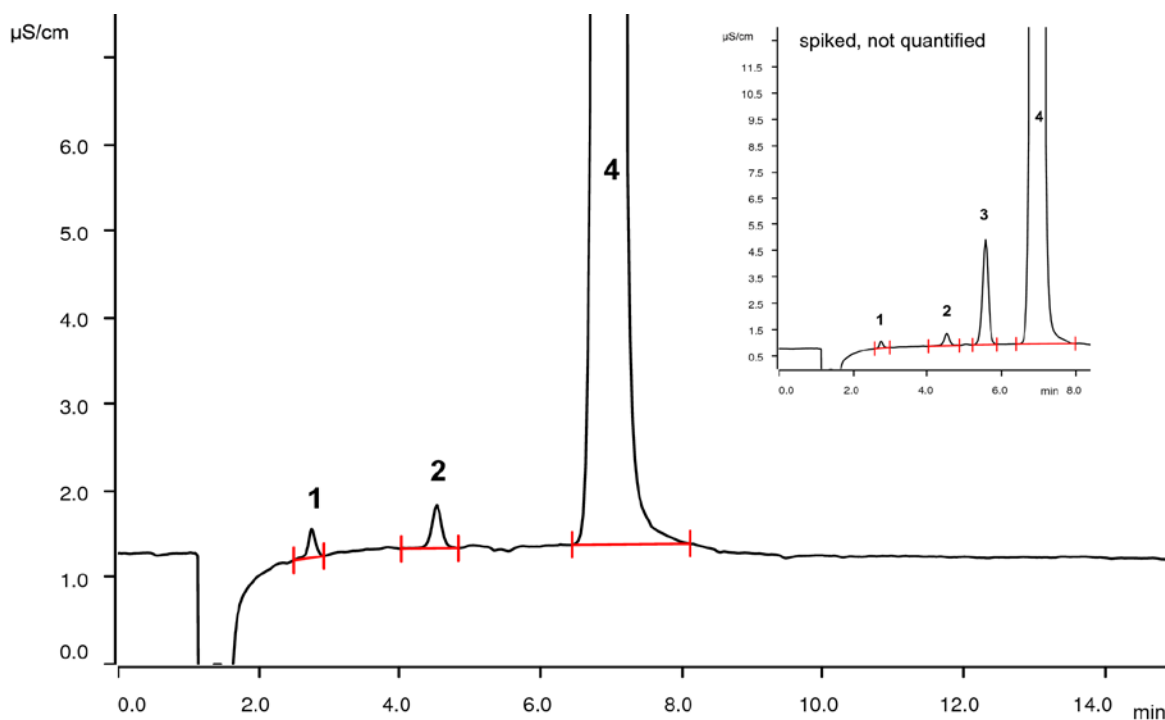


# Purity of 2-amino-N-(2,2,2-trifluoroethyl)-acetamide by ion chromatography



2-amino-N-(2,2,2-trifluoroethyl)-acetamide is a organic building block for synthesis of pharmaceutical products. Its purity is crucial for the success of the respective synthesis step. 2,2,2-trifluoroethylamine, glycine and inorganic cations are of interest. Their total peak area is required to be < 2 % of the peak area of all peaks above the reporting level. Separation and quantification is achieved on a Metrosep C 4 - 250/4.0 cation column.

## Results

Cation	Area	Area%	Purity [%]
1 Glycine	0.040	0.14	-
2 Sodium	0.084	0.29	-
3 2,2,2-trifluoroethylamine	n.d.	-	-
4 2-amino-N-(2,2,2-trifluoroethyl)-acetamide	28.554	99.57	99.57

### Sample

2-amino-N-(2,2,2-trifluoroethyl)-acetamide  
(200 mg/100 mg)

### Sample preparation

None

### Columns

Metrosep C 4 - 250/4.0	6.1050.430
Metrosep C 4 Guard/4.0	6.1050.500

### Solutions

Eluent	2.5 mmol/L nitric acid
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### Analysis

Direct conductivity detection

### Instrumentation

883 Basic IC plus	2.883.0020
863 Compact IC Autosampler	2.863.0010

### Parameters

Flow rate	1.5 mL/min
Injection volume	10 µL
P <sub>max</sub>	25 MPa
Recording time	15 min
Column temperature	30 °C

