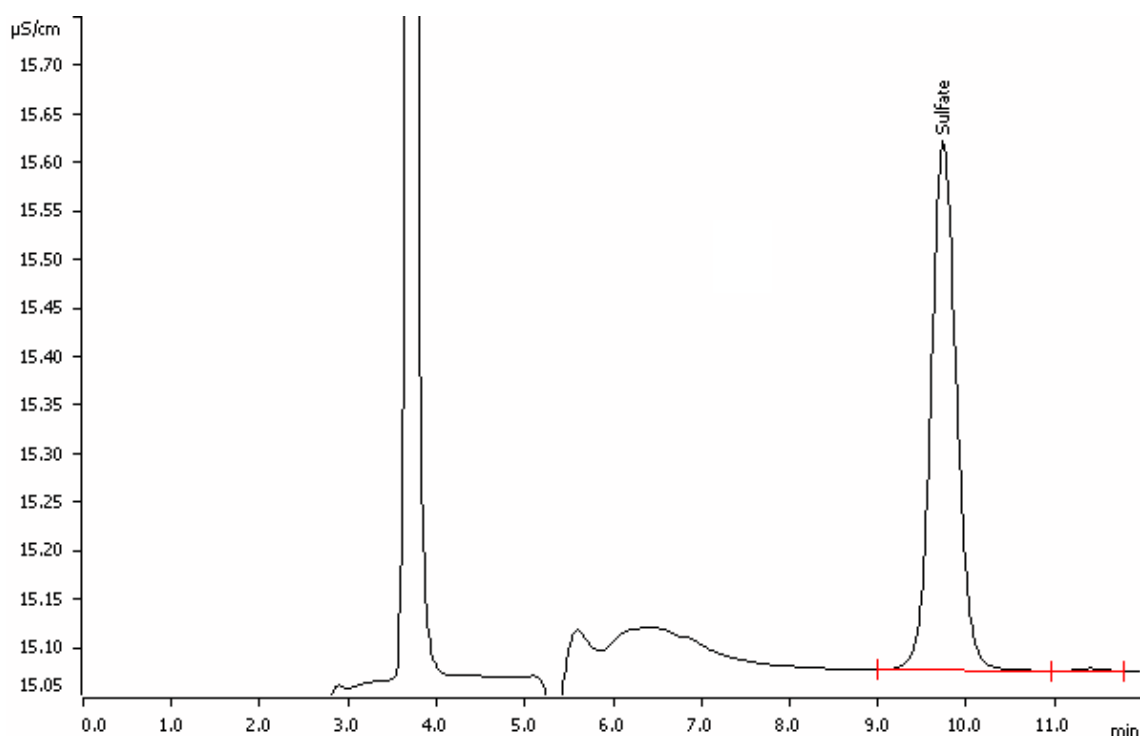


# Determination of sulfate in nadroparin



Nadroparin is a low-molecular-weight heparin used as an anticoagulant to prevent thrombosis. The determination of sulfate in the sulfur-containing anticoagulant is performed to control the degradation of the product. Thanks to the absence of interfering peaks close to sulfate, a short column could be used.

## Results

Anion	[mg/L]	RSD (% , n = 3)
Sulfate	67.2	0.87

# Method description

## Sample

Nadroparin injection

## Sample preparation

Diluted 1 : 50 with ultrapure water

## Column

Metrosep A Supp 5 - 100/4.0	6.1006.410
Metrosep A Supp 4/5 Guard/4.0	6.1006.500

## Solutions

Eluent	3.2 mmol/L sodium carbonate 1.0 mmol/L sodium hydrogen carbonate
Regenerant	100 mmol/L sulfuric acid
Rinsing solution	Ultrapure water

## Analysis

Suppressed conductivity

## Parameters

Flow rate	0.7 mL/min
Injection volume	20 µL
P <sub>max</sub>	15.0 MPa
Recording time	12 min



## Instrumentation

882 Compact IC plus – Anion 2.882.0020