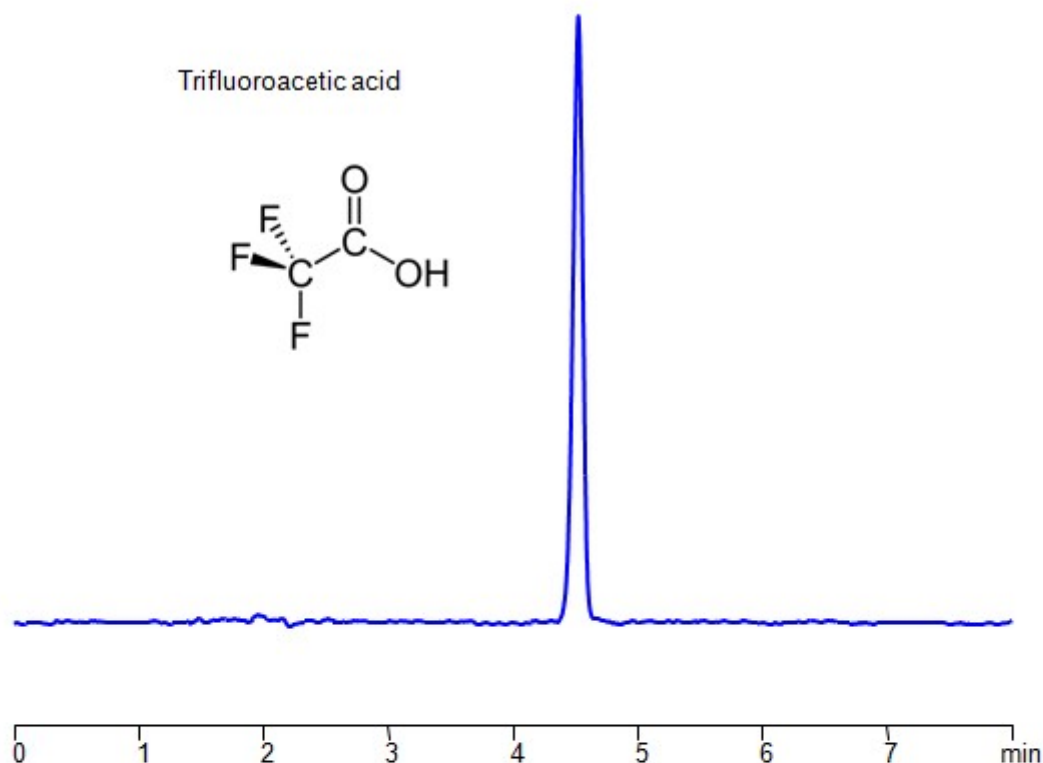


HPLC ELSD Method for Analysis Trifluoroacetic acid on Primesep B4 Column

<https://sielc.com/hplc-method-for-analysis-tfa>

Chromatogram



Column:	Primesep B4
Column size:	4.6 × 150 mm, 5 µm
Column part number:	B4-46.150.0510
Mobile phase:	MeCN/H ₂ O – 70/30%
Buffer:	Ammonium acetate pH 5.0 – 60 mM
Flow rate:	1.0 mL/min
Sample:	1 mg/ml
Injection volume:	3 µl
LOD:	1 ppm
Detection:	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)

Description

· HPLC Method for Analysis of TFA (Trifluoroacetic Acid) on Primesep B4 Column by SIELC Technologies · Trifluoroacetic acid (TFA) is a strong organic acid with the chemical formula CF_3COOH . · Properties: · Uses: · Precautions:

Trifluoroacetic acid can be retained and analyzed using an Primesep B4 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and ammonium formate as a buffer. Detection is achieved using ELSD

Method Parameters

Mobile Phase	MeCN/H ₂ O – 70/30%
Buffer	Ammonium formate pH 3.0 – 60 mM
Flow Rate	1.0 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
Samples	1 mg/ml
Injection volume	3 µl
LOD*	1 ppm
Class of Compounds	Quaternary amines
Analyzing Compounds	TFA (Trifluoroacetic Acid)

HPLC Column Used

Primesep B4, 4.6 x 150 mm, 5 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](http://hplc-shop.de)