

InertSearch for LC

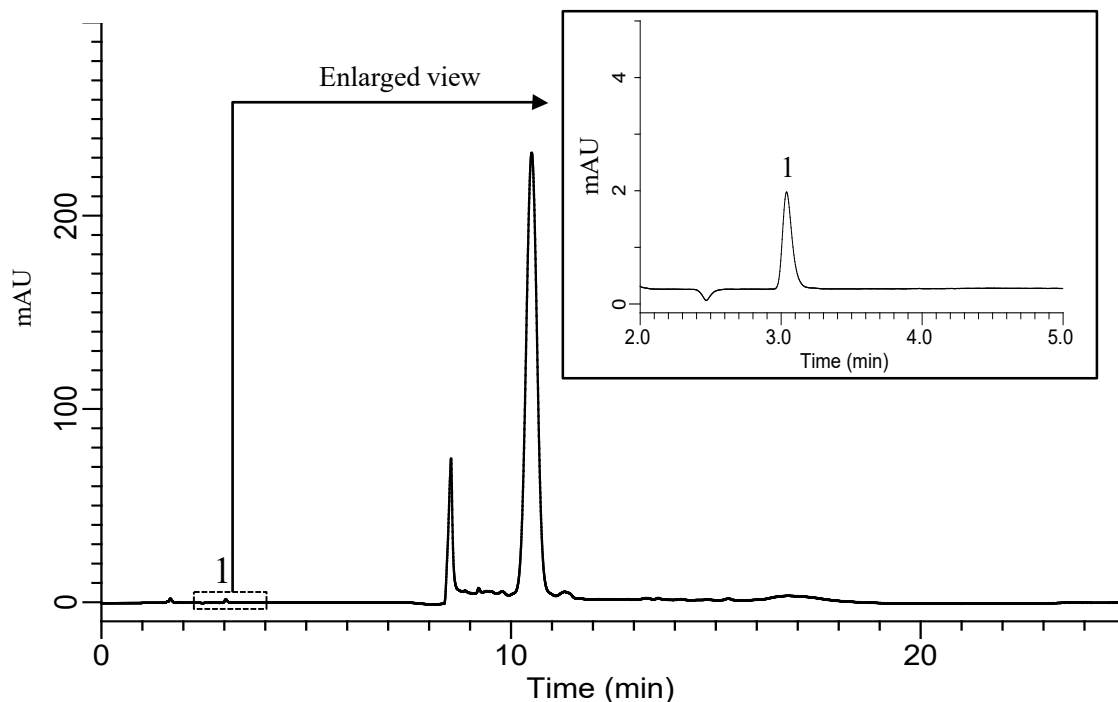
Inertsil Applications

Analysis of Trifluoroacetic acid (TFA)

(Under the Condition of USP43-NF38, GENERAL CHAPTERS <503.1>

TRIFLUOROACETIC ACID (TFA) IN PEPTIDES)

Data No. LB696-1087



Conditions

System : Chromaster HPLC system
Column : InertSustain AQ-C18
(5 μ m, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-89731
Eluent : A) Solution A*
B) CH₃CN/H₂O = 50/50, v/v

Analyte:

1. Trifluoroacetic acid 0.025 mg/mL

RSD of the peak area (%) (n=6) : 0.47 (\leq 5.0)

Time (min)	A (vol%)	B (vol%)
0.0	100	0
5.0	100	0
6.0	0	100
14.0	0	100
15.0	100	0
25.0	100	0

*Add 3.5 mL of phosphoric acid and 2.5 mL of ammonium hydroxide to 450 mL of water. Mix and dilute with water to 500 mL. Add 20 mL of methanol, mix, and degas for 2 min.

Flow Rate : 1.5 mL/min
Col. Temp. : 40 °C
Detection : UV 210 nm
Injection Vol. : 20 μ L
Sample : Standard