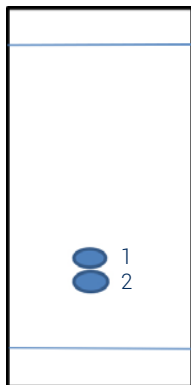




1. TLC method development

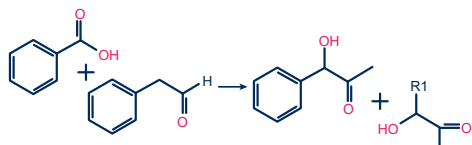


Mobile phase:
91% Petroleum ether / Ethyl acetate 9%

Compound of interest:
compound 1

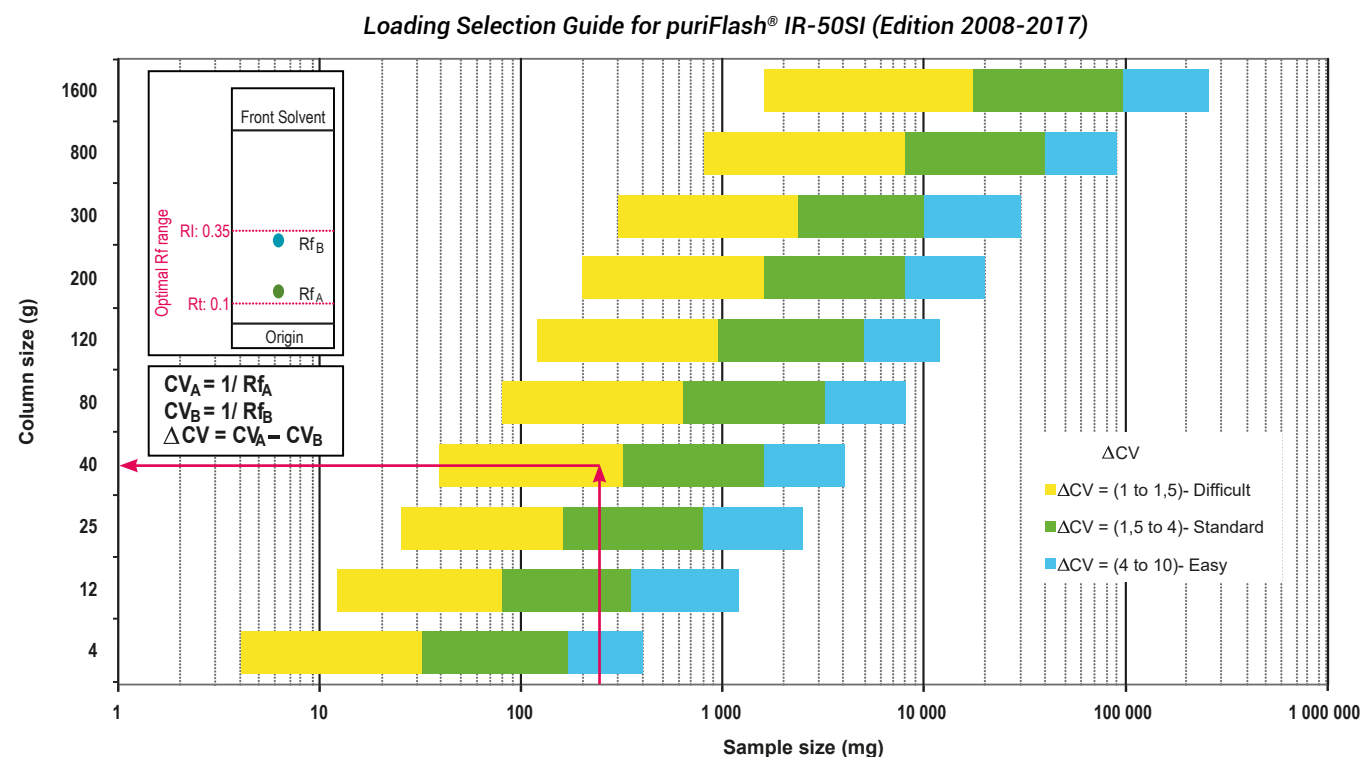
Compound	Rf	CV
1	0.27	3.70
2	0.25	4

$$\Delta CV_{2-1} = 0.30$$



2. Choice of the column according to the ΔCV & crude sample mass

Crude sample: 250mg
Column: PF-15SIHP-F0025 x2
Loading capacity: 0.5%



Customer has chosen to stack 2 columns PF-15SIHP-F0025 to increase the silica height and obtain a better separation (efficiency & purity) than with 1 column IR-50SI-F0040.

3. Flash conditions

Device: puriFlash® 450 (or now puriFlash® 5.050)

Solvents: A: Petroleum ether
B: Ethyl acetate

Column: PF-15SIHP-F0025 (x2)

Flow rate: 15mL/min

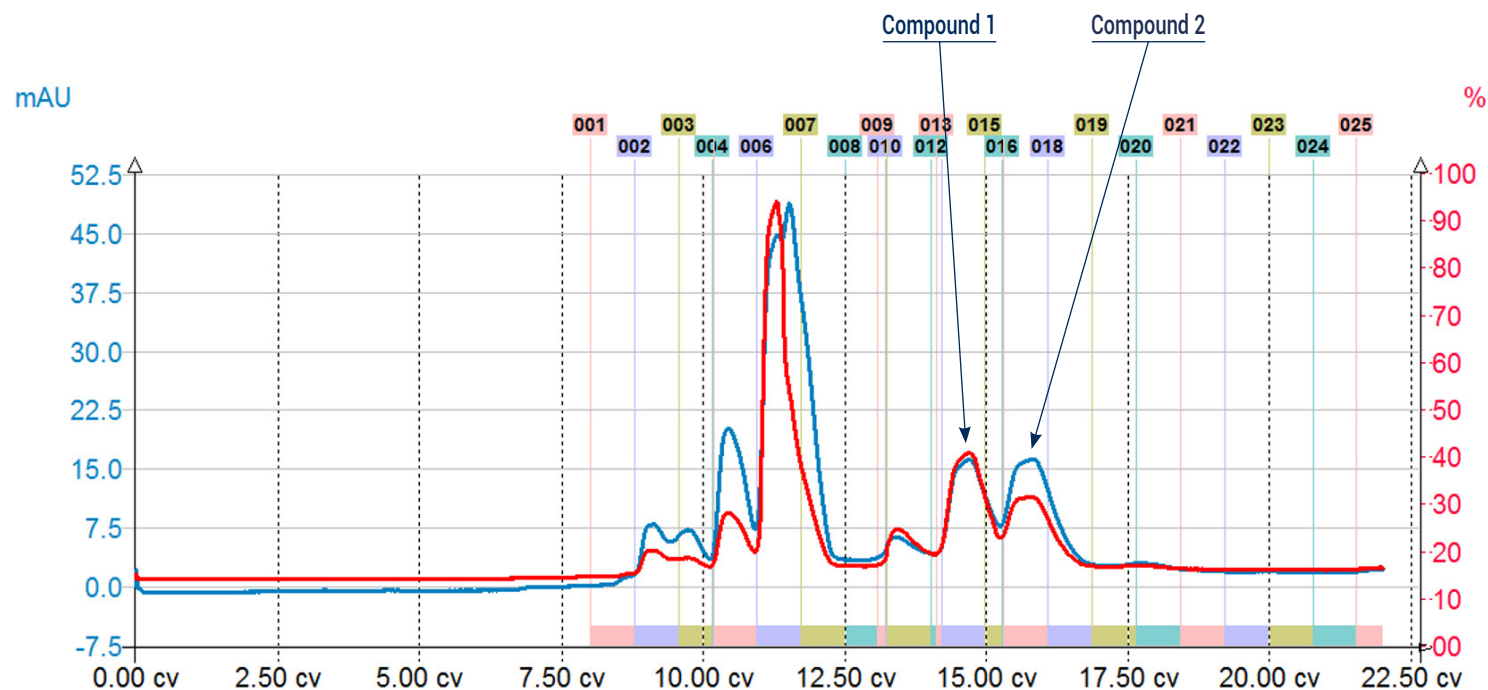
Injection mode: Solid deposit with celite (Dry-load F0004)

Crude sample: 250mg

Detection: UV 280nm (Blue), Scan 200-600nm (Red)

Elution conditions:

CV	A (%)	B (%)
0	98	2
1	98	2
11	82	18
15	82	18
18	80	20
20	80	20
21	70	30
22	70	30



To achieve this purification:

You will need

- puriFlash® 5.050
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0025
[Discover it](#) [Add to card](#)
- puriFlash® Dry-load PF-DLE-F0004
[Discover it](#) [Add to card](#)

We highly recommend

- Magic box Flash AXF7T0 [Add to card](#)
- 16x150mm Rack AYHE40 [Add to card](#)
- Tubes 16x150mm BX5400 [Add to card](#)

Download our App

"TLC to Flash & Prep Chromatography" to make your TLC developments easier and faster.

