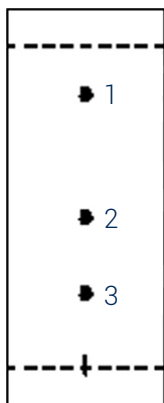


1. TLC method development



Mobile phase:
80% Petroleum Ether / Ethyl Acetate 20%

Compound of interest:
compound 3

Compound	Rf	CV
1	0.85	1.18
2	0.47	2.13
3	0.23	4.35

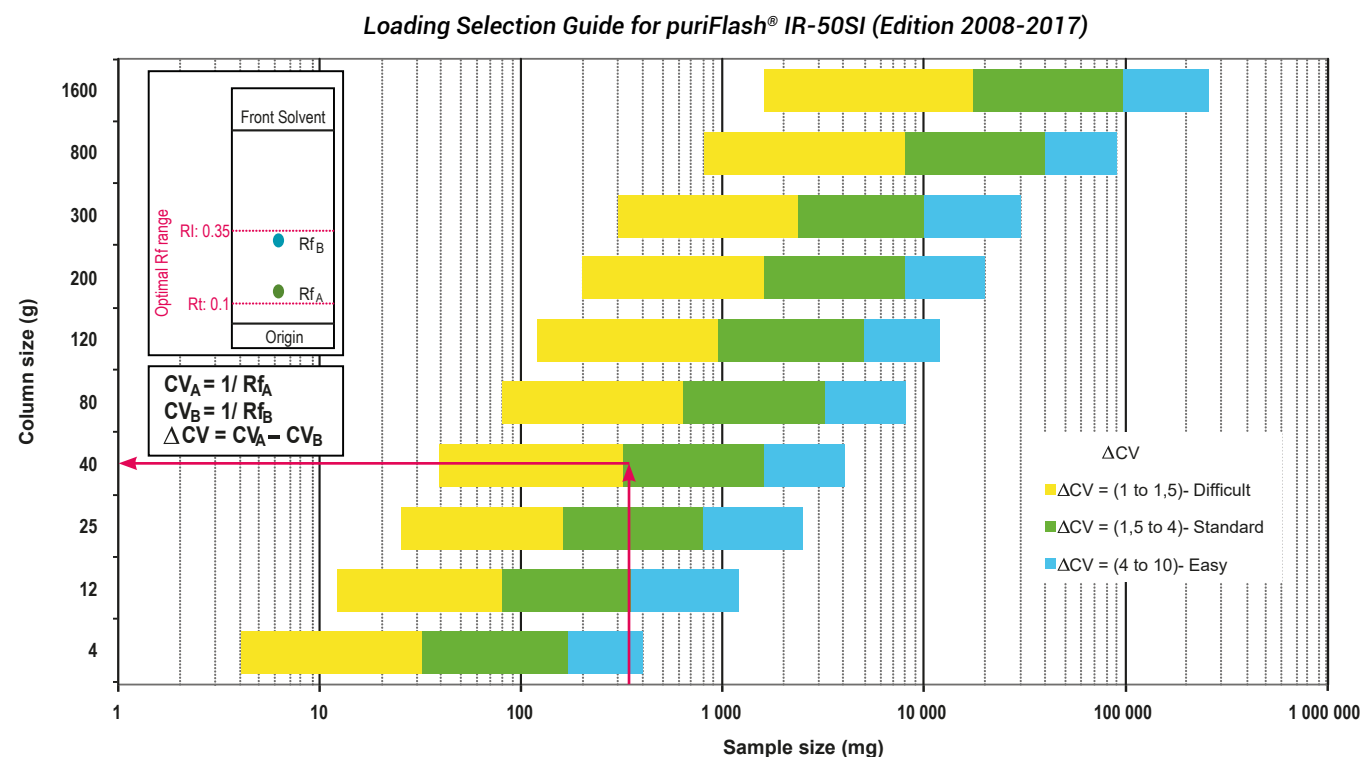
$$\Delta CV_{3-2} = 2.22$$

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

Crude sample: 318mg

Column: PF-15SIHP-F0040

Loading capacity: 0.80%



Customer has chosen to use a PF-15SIHP-F0040 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0040 column.

3. Flash conditions

Device: puriFlash® XS 420 Plus (or now puriFlash® XS 520 Plus)

Solvents: A: Petroleum Ether
B: Ethyl Acetate

Column: PF-15SIHP-F0040

Flow rate: 26mL/min

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

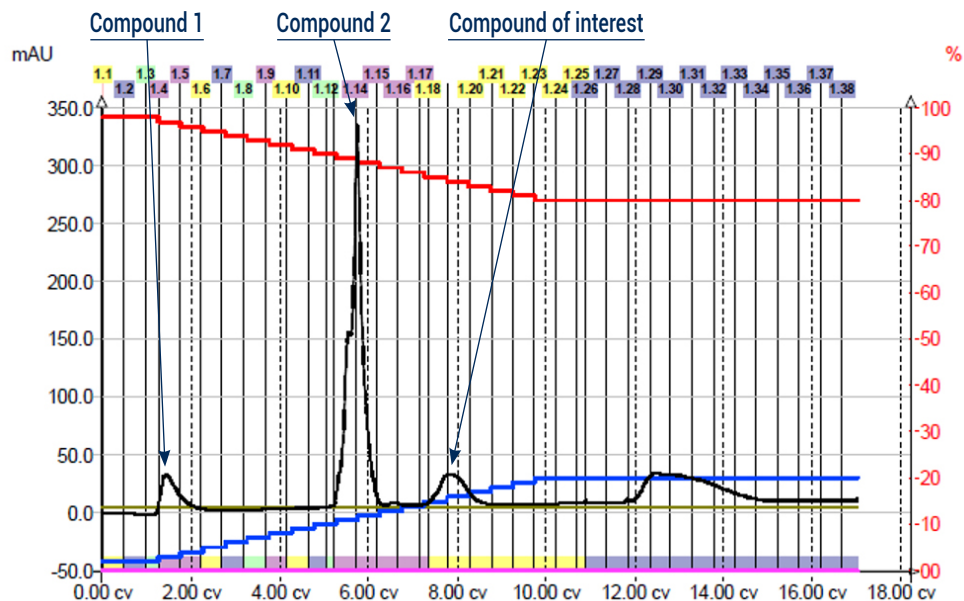
Crude sample: 318mg

Detection: UV 254nm

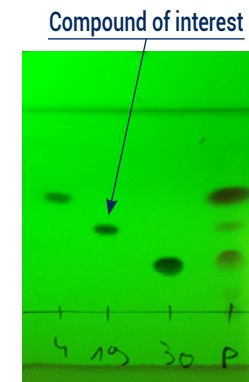
Pressure: 5bar

Elution conditions:

CV	A (%)	B (%)
0	98	2
1	98	2
10	80	20
19.5	80	20



4. TLC confirmation



To achieve this purification:

You will need

- puriFlash® XS 520 Plus
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0040
[Discover it](#) [Add to card](#)
- puriFlash® Dry-load PF-DLE-F0004
[Discover it](#) [Add to card](#)

We highly recommend

- Extractor with 2 extraction tubes + kit 1R8570 [Add to card](#)
- Ballasting for 1/8" tubing - 5 units DZ7360 [Add to card](#)
- Safety waste cap with container 5L + Filter 106930 [Add to card](#)

Download our App

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

