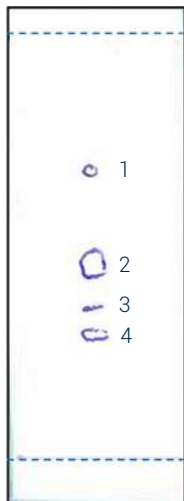


1. TLC method development



Mobile phase:
95% CH₂Cl₂ / MeOH 5%

Compound of interest:
Compound 2

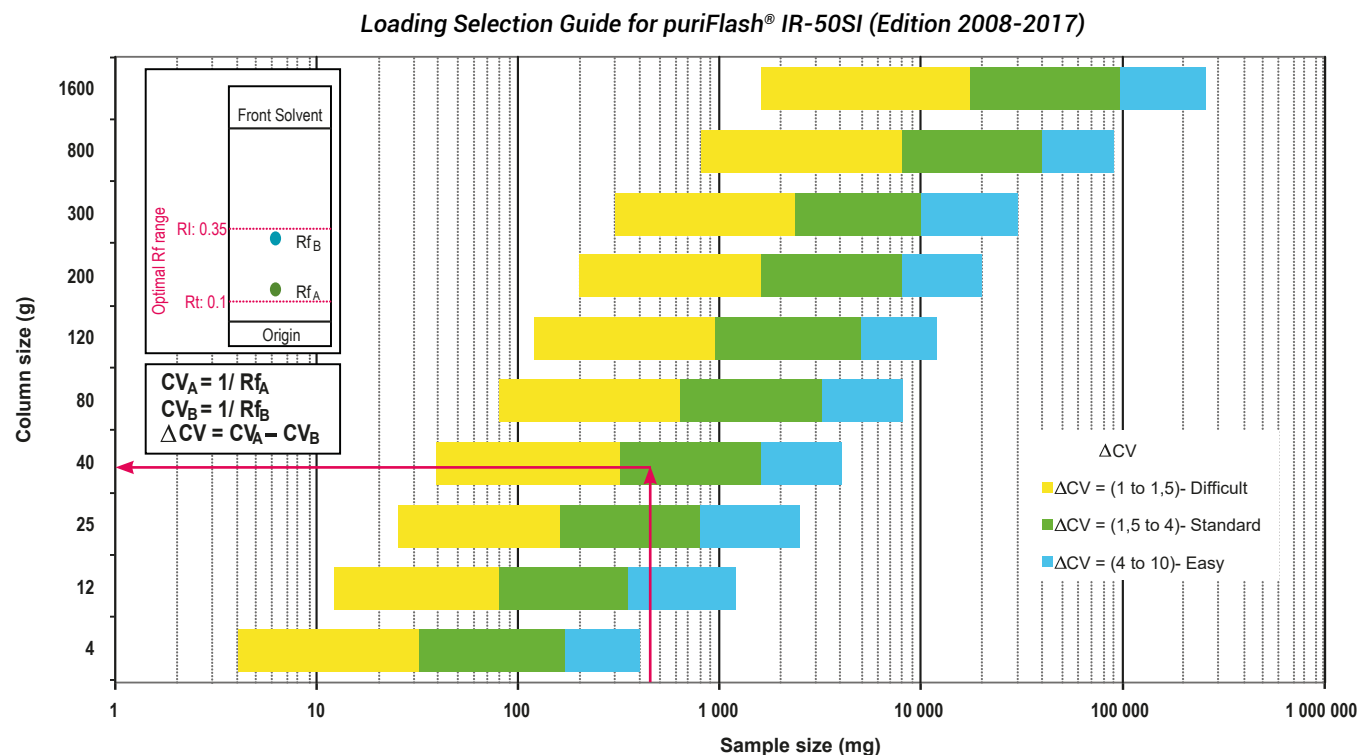
Compound	Rf	CV
1	0.67	1.49
$\Delta CV_{2-1} = 0.73$		
2	0.45	2.22
$\Delta CV_{3-2} = 0.64$		
3	0.35	2.86
4	0.28	3.57

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

Crude sample: 450mg

Column: PF-15SIHP-F0040

Loading capacity: 1.13%



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® 4125-iELSD (or now puriFlash® 5.125 pack-iELSD)

Solvents: A: CH₂Cl₂

B: MeOH

Column: PF-15SIHP-F0040

Flow rate: 26mL/min

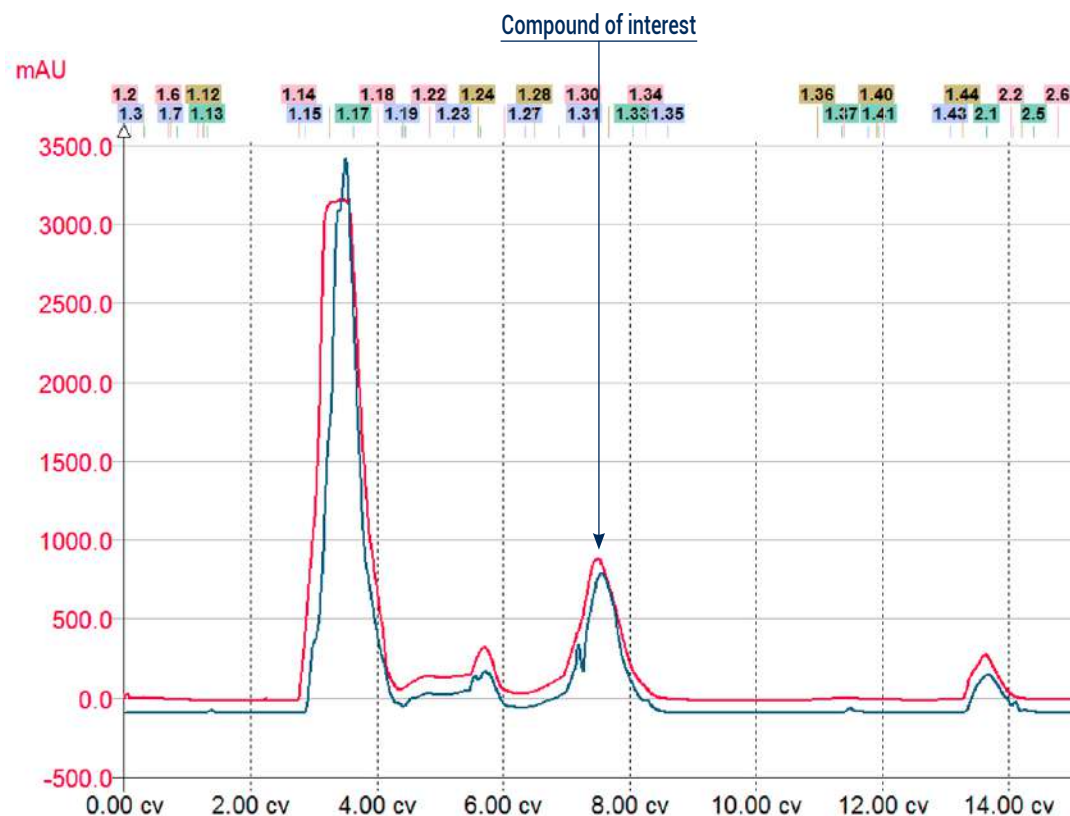
Injection mode: Solid deposit with celite (Dry-load F0004)

Crude sample: 450mg

Detection: UV 250nm (blue), ELSD (35°C; Automatic gain) (red)

Elution conditions:

CV	A (%)	B (%)
0	99	1
10.72	99	1
19.98	90	10



To achieve this purification:

You will need

- puriFlash® 5.125
[Discover it](#) [Add to card](#)
- Integrated ELSD
[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

- Magic box AXF7L0 [Add to card](#)
- 21x150mm Rack AYHE60 [Add to card](#)
- Tubes 21x150mm FL1120 [Add to card](#)

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

