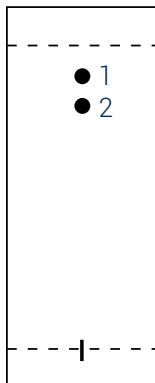


1. TLC method development



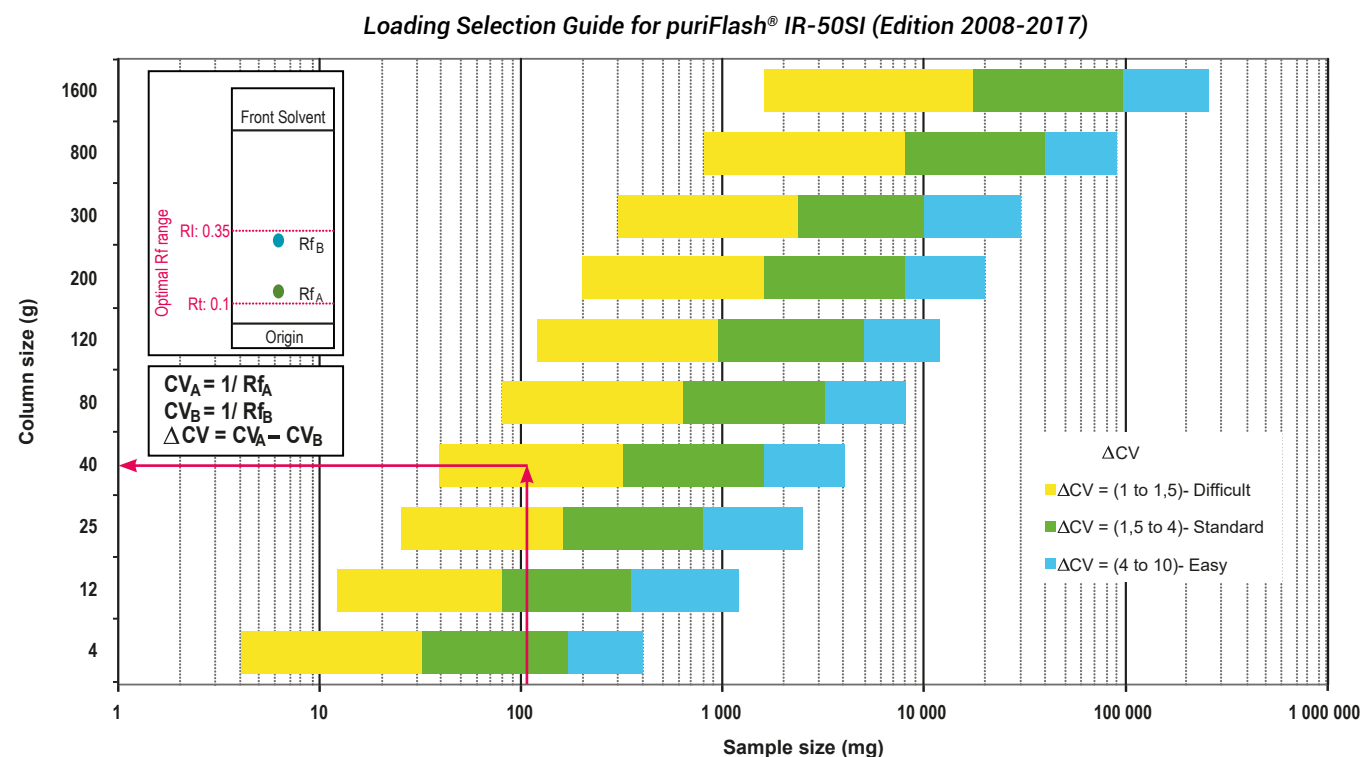
Mobile phase:
50% Petroleum Ether / Diethyl Ether 50%

Compound	Rf	CV
1	0.9	1.11
2	0.8	1.25

$$\Delta CV_{2-1} = 0.14$$

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

Crude sample: 109mg
Column: PF-15SIHP-F0040
Loading capacity: 0.27%



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: Diethyl Ether

Column: PF-15SIHP-F0040

Flow rate: 26mL/min

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

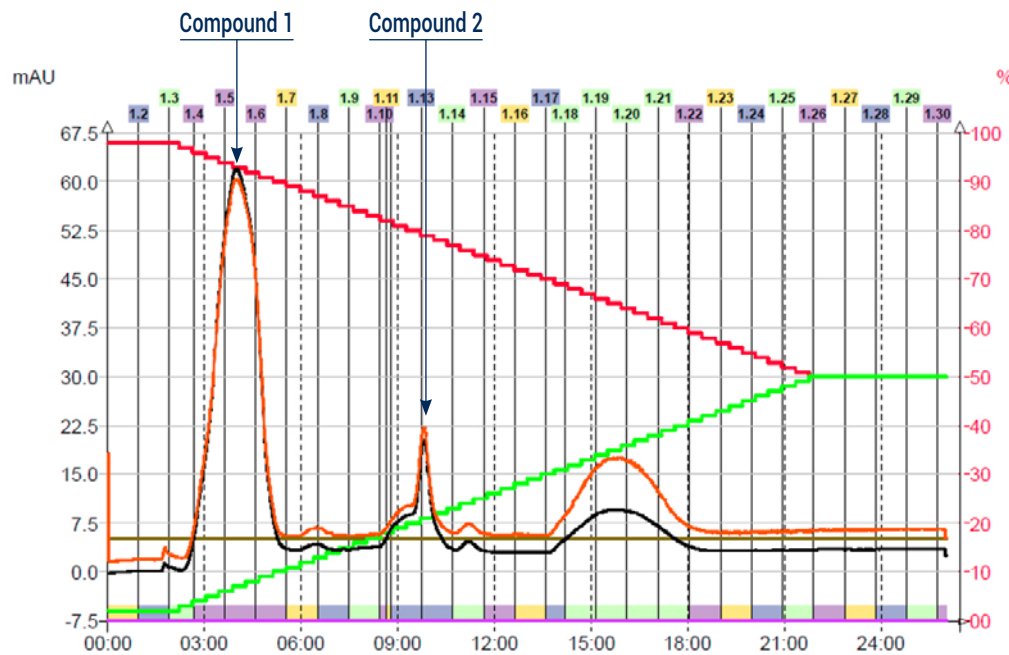
Crude sample: 109mg

Detection: UV 254nm (black), UV Scan 250-400nm (orange)

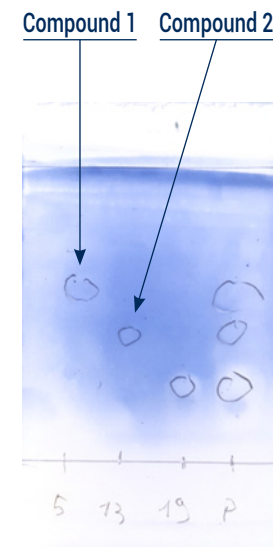
Pressure: 5bar

Elution conditions:

t (min)	A (%)	B (%)
00:00	98	2
02:00	98	2
22:00	50	50
31:00	50	50



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

- Safety solvent caps kit - 4 units DV2760 [Add to card](#)
- Safety waste cap with container 5L + Filter IO6930 [Add to card](#)
- Ballasting for 1/8" tubing - 5 units DZ7360 [Add to card](#)

Download our App

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

