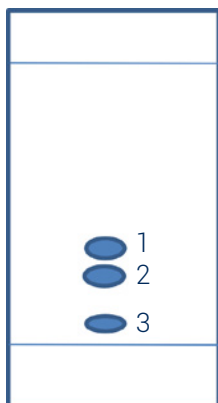


1. TLC method development



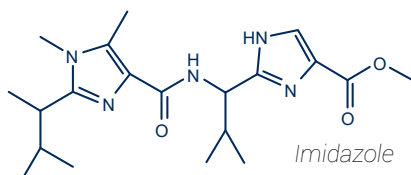
Mobile phase:
74% Dichloromethane / Ethyl Ether 24% /
Methanol 2%

Compound of interest:
Compound 1

Compound	Rf	CV
1	0.33	3.03
2	0.17	5.88
3	0.07	14.29

$$\Delta CV_{2-1} = 2.85$$

According to ΔCV calculation, compounds 1 and 2 are difficult to separate.

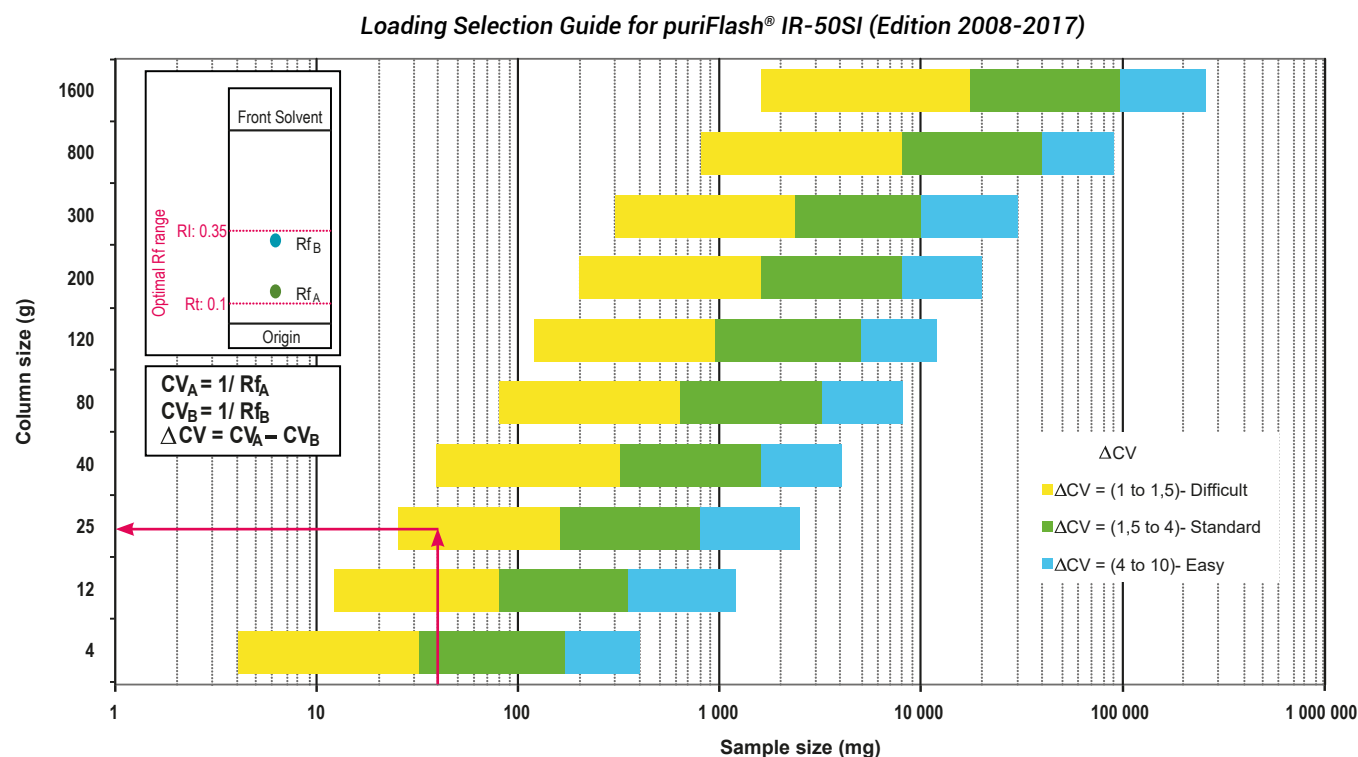


2. Choice of the column according to the ΔCV & crude sample mass

Crude sample: 400mg

Column: PF-15SIHP-F0025

Loading capacity: 0.75%



Customer has chosen to use a PF-15SIHP-F0025 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0025 column.

3. Flash conditions

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

Solvents: A: Dichloromethane

B: Ethyl Ether with Methanol

Column: PF-15SIHP-F0025

Flow rate: 15mL/min

Injection mode: Liquid injection

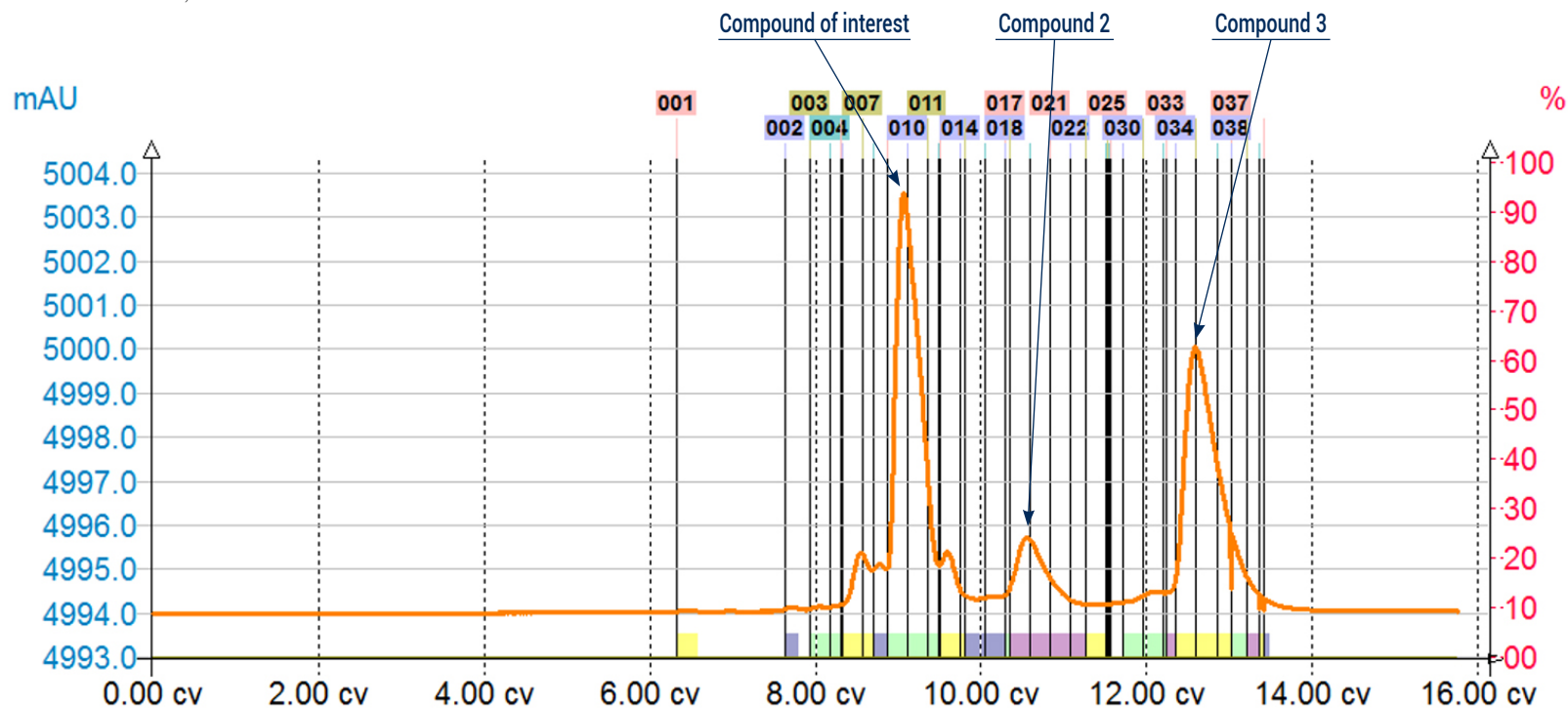
Crude sample: 400mg

Detection: UV 260nm

Pressure: 5bar

Elution conditions:

CV	A (%)	B (%)
0	94	6
1	94	6
11	50	50
13	50	50
16	50	50



To achieve this purification:

You will need

- puriFlash® XS 520 Plus
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0025
[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](#)

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

