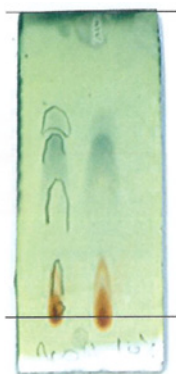
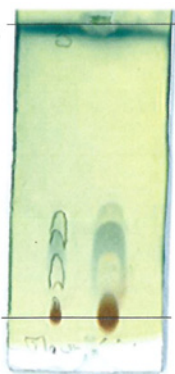


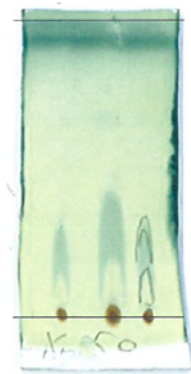
1. TLC method development



Mobile phase:
90% Dichloromethane /
Methanol 10%



Mobile phase:
95% Dichloromethane /
Methanol 5%

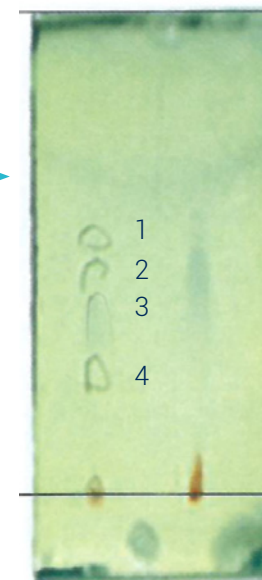


Mobile phase:
50% Petroleum Ether /
Ethyl Acetate 50%



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

Dilution of the sample
by 10

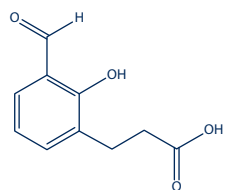


Mobile phase:
90% Dichloromethane / Methanol 10%

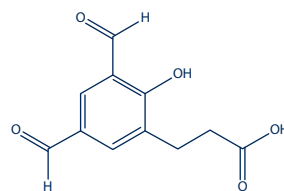
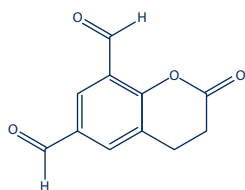
Compound of interest:
compound 3

Compound	Rf	CV
1	0.49	2.04
2	0.43	2.33
3	0.34	2.94
4	0.22	4.54

$$\Delta CV_{3-2} = 0.61$$



Close side products



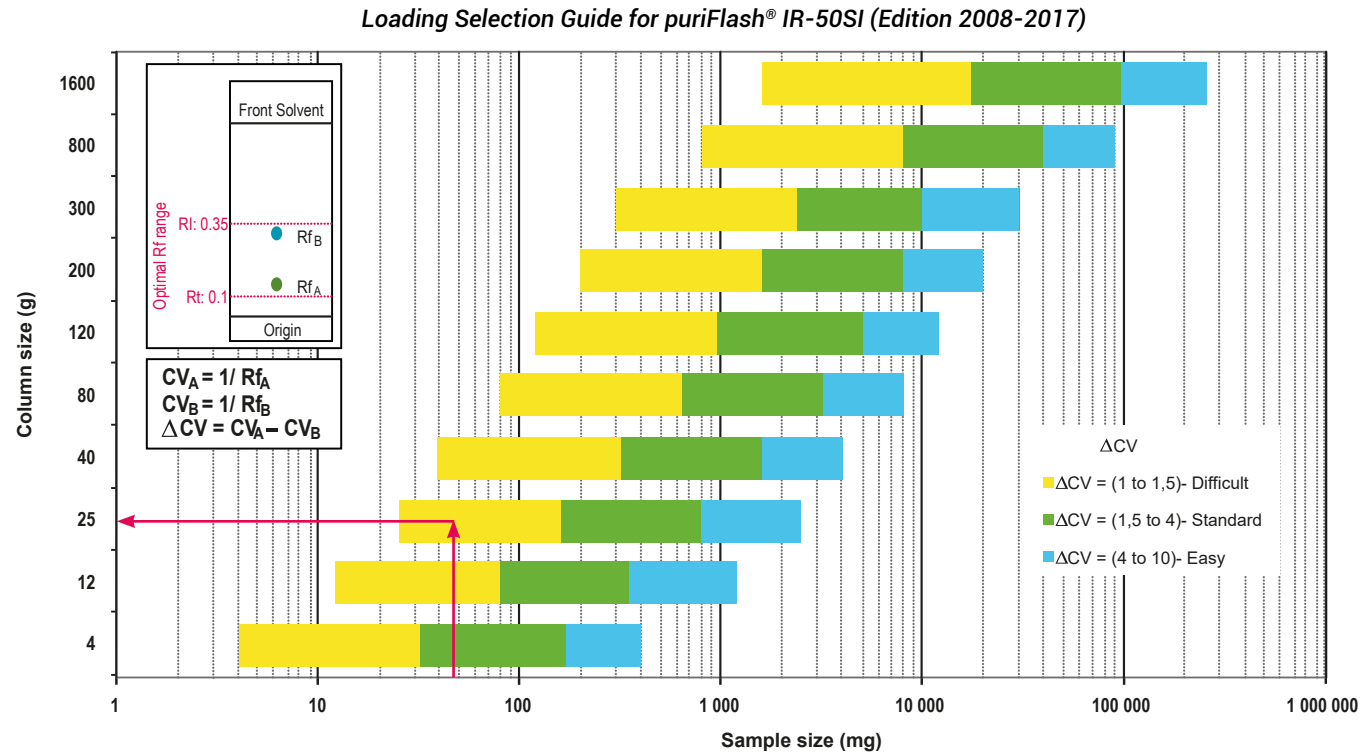
Compound of interest

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

Crude sample: 47mg

Column: PF-15SIHP-F0025

Loading capacity: 0.25%



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: Methanol

Column: PF-15SIHP-F0025

Flow rate: 15mL/min

Injection mode: Liquid injection

Crude sample: 47mg

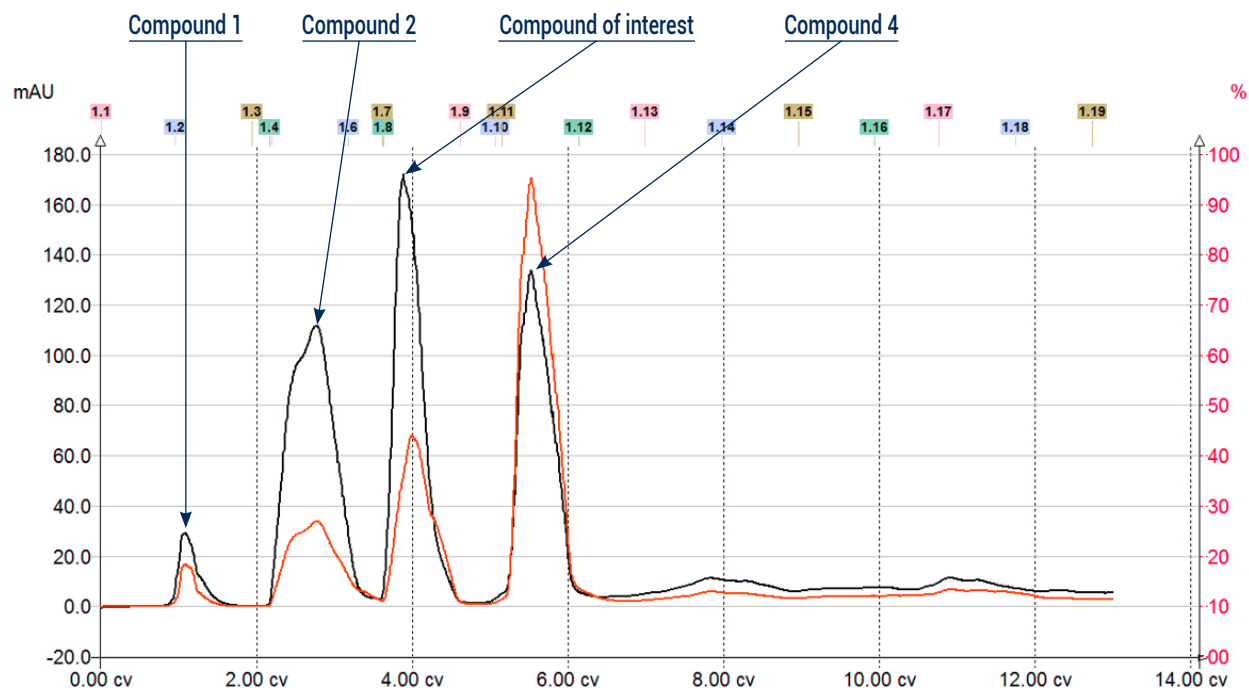
Detection: UV 254nm (black), UV Scan 230-400nm (orange)

Mode: Automatic Gradient Optimization

Pressure: 1bar

Elution conditions:

CV	A (%)	B (%)
0	98	2
1	98	2
11	90	10
13	90	10



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

- Extractor with 2 extraction tubes + kit
1R8570 [Add to card](#)
- 16x150mm Rack
1R8600 [Add to card](#)
- Tubes 16x150mm
BX5400 [Add to card](#)

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