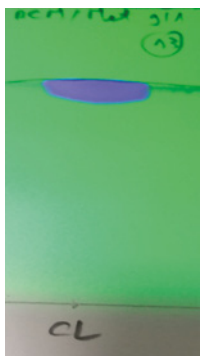


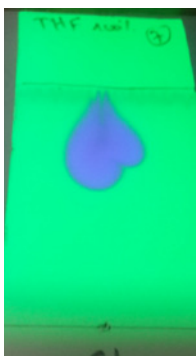
1. TLC method development

Customer TLC

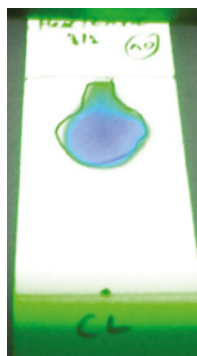


Mobile phase:
90% DCM / MeOH 10%

Interchim® development



Mobile phase:
100% THF

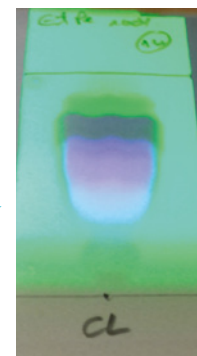


Mobile phase:
80% Hexane / AcOEt 20%



Mobile phase:
100% Hexane

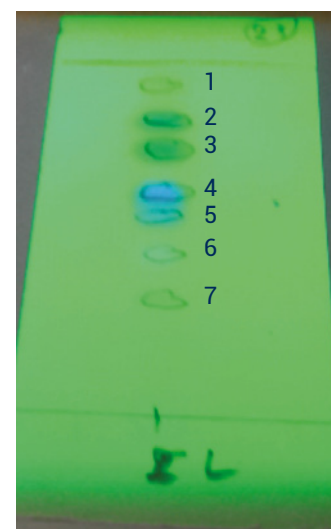
Adaptation of TLC
conditions to get
the best condition



100% Petroleum Ether

Compound	Rf	CV
1	0.938	1.067
$\Delta CV_{2-1} = 0.123$		
2	0.841	1.189
$\Delta CV_{3-2} = 0.124$		
3	0.761	1.313
$\Delta CV_{4-3} = 0.258$		
4	0.636	1.571
$\Delta CV_{5-4} = 0.171$		
5	0.574	1.743
$\Delta CV_{6-5} = 0.430$		
6	0.460	2.173
$\Delta CV_{7-6} = 0.810$		
7	0.335	2.983

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



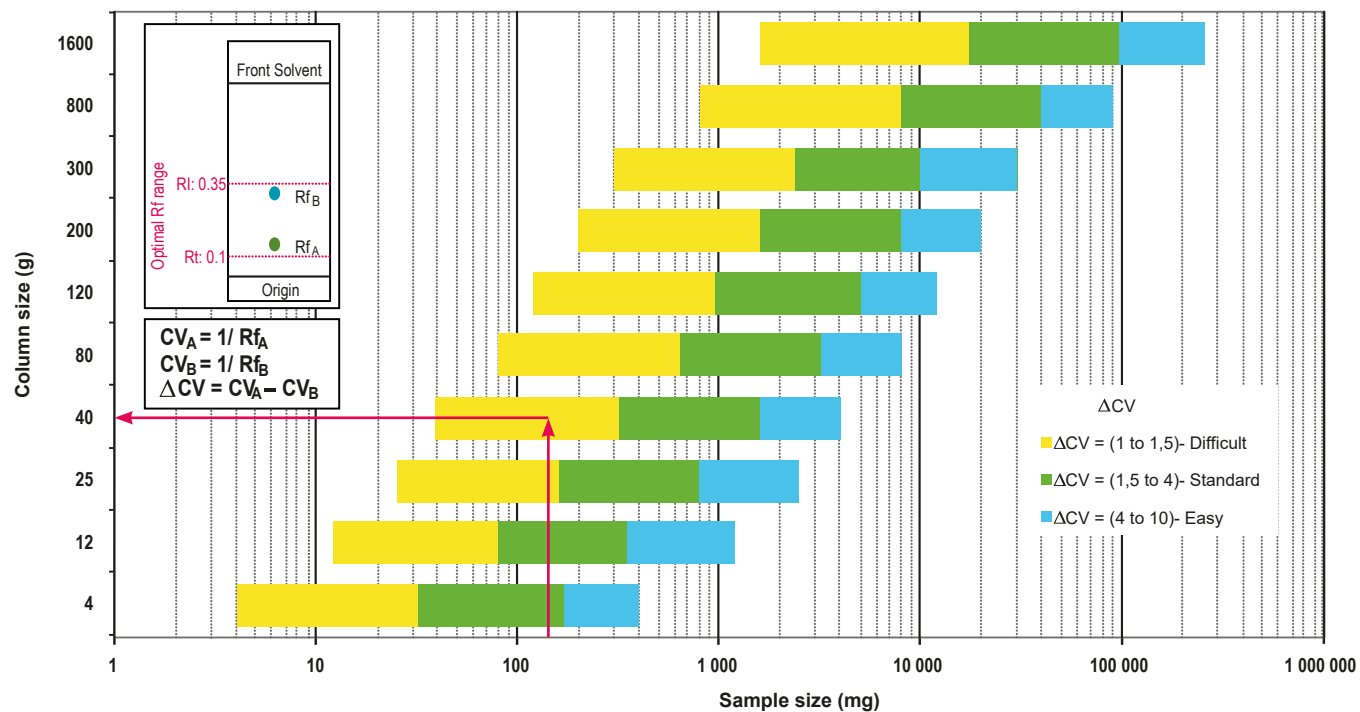
100% Petroleum Ether

Dilution of the sample
by 100 and 5 μ L
put on the plate

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

Crude sample: 150mg
Column: PF-15SIHP-F0040
Loading capacity: 0.375%

Loading Selection Guide for puriFlash® IR-50SI (Edition 2008-2017)



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® 430-iELSD (or now puriFlash® 5.020 pack iELSD)

Solvents: 100% Petroleum Ether

Column: PF-15SIHP-F0040

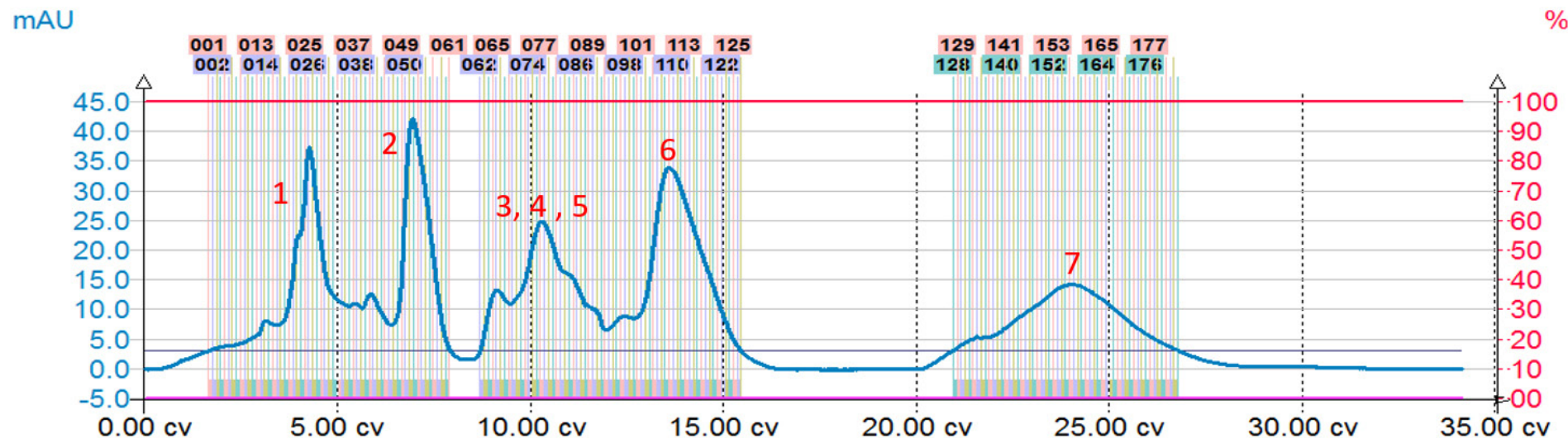
Flow rate: 30mL/min

Injection mode: Liquid injection

Crude sample: 150mg

Detection: Scan UV 200-600nm

Elution conditions: Isocratic mode



To achieve this purification:

You will need

- puriFlash® 5.020
[Discover it](#) [Add to card](#)
- Integrated ELSD
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0040
[Discover it](#) [Add to card](#)

We highly recommend

- Magic box Flash
AXF710 [Add to card](#)
- 16x150mm Rack
AYHE40 [Add to card](#)
- Tubes 16x150mm
BX5400 [Add to card](#)

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to make your TLC developments easier
and faster.

