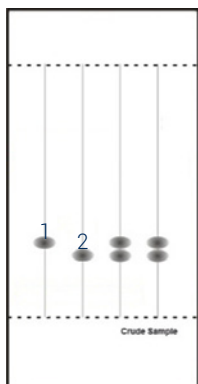




## 1. TLC method development



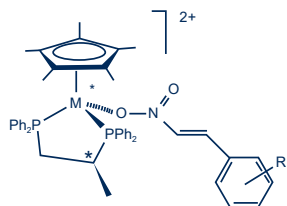
Mobile phase:  
80% Cyclohexane / Acetone 20%

Compound	Rf	CV
1	0.37	2.7
2	0.23	4.35

$\Delta CV_{2-1} = 1.65$

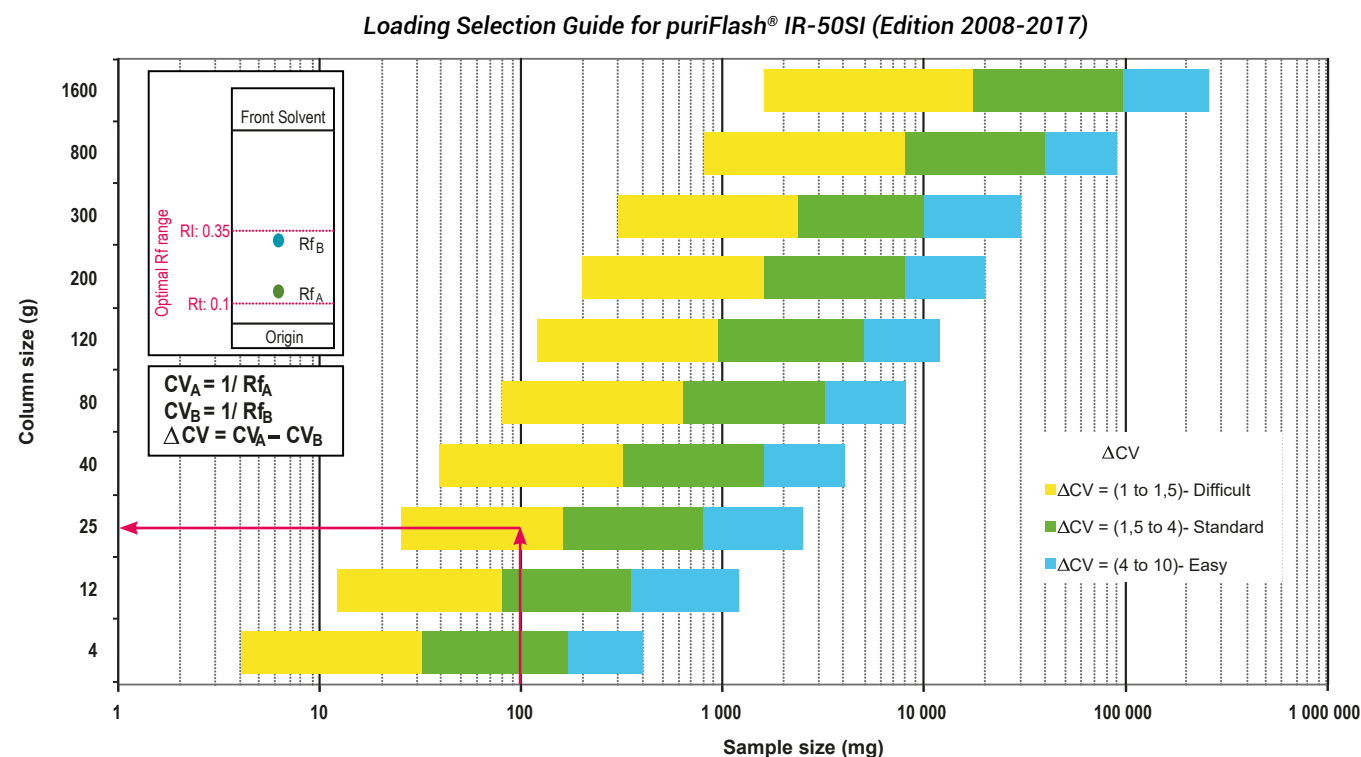
Adaptation of TLC conditions to get at least one compound of interest between  $R_f$  0.05 & 0.35.

Ethyl acetate is very use in flash chromatography but this solvent adsorbs from 200 up to 250nm. Compounds absorb at the same wavelength range. Acetone is an alternative to ethyl acetate.



## 2. Choice of the column according to the $\Delta CV$ & crude sample mass

Crude sample: 100mg  
Column: PF-30SIHP-F0025  
Loading capacity: 0.4%



Customer has chosen to use PF-30SIHP-F0025 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0025 column.

### 3. Flash conditions

Device: puriFlash® 450 (or now puriFlash® 5.050)

Solvents: A: Cyclohexane  
B: Acetone

Column: PF-30SIHP-F0025

Flow rate: 20mL/min

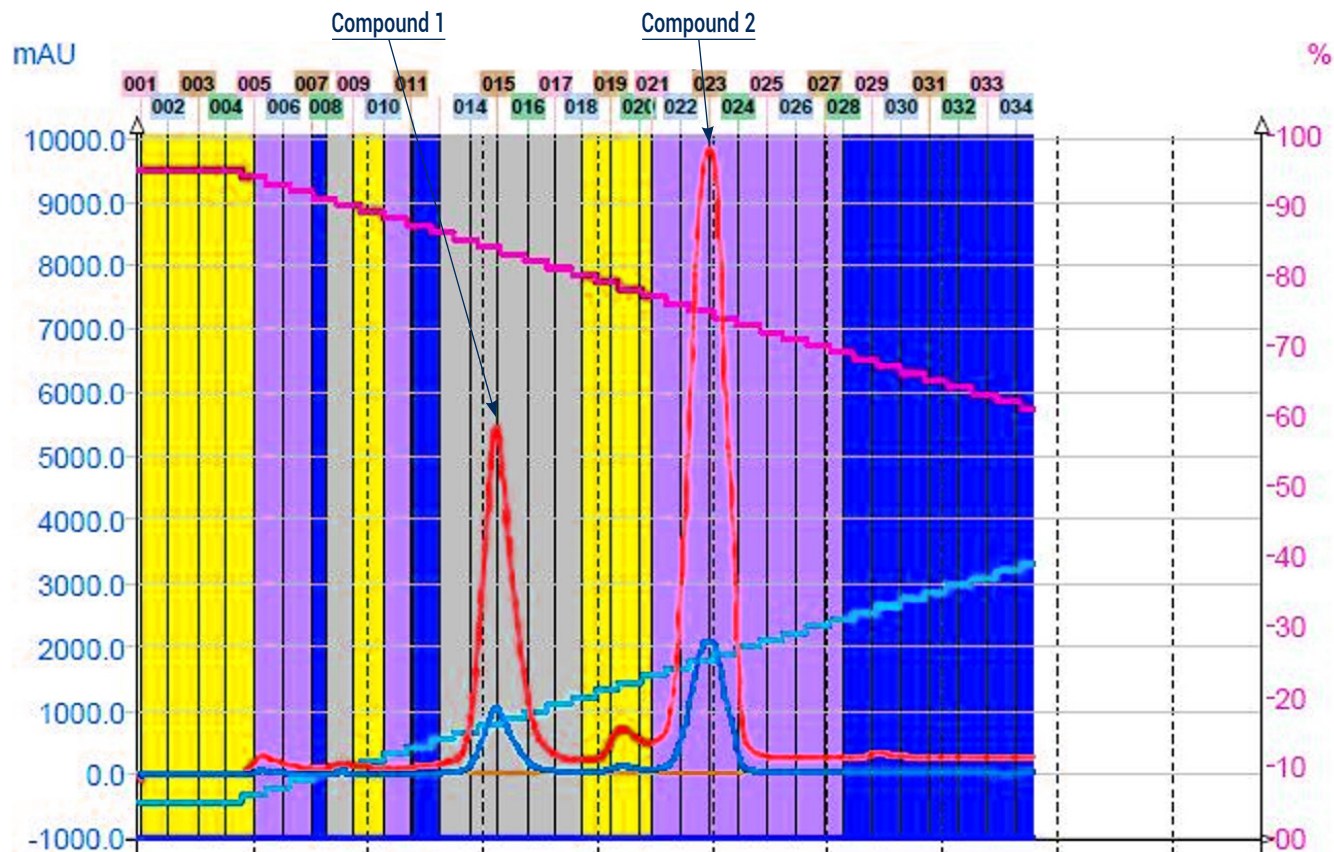
Injection mode: Solid deposit with celite (Dry-load F0004)

Crude sample: 100mg

Detection: UV 220nm (Blue) + Scan UV 200-230nm (Pink)

Elution conditions:

CV	A (%)	B (%)
0	95	5
1	95	5
11	60	40
13	60	40



#### To achieve this purification:

##### You will need

- puriFlash® 5.050  
[Discover it](#) [Add to card](#)
- puriFlash® column PF-30SIHP-F0025  
[Discover it](#) [Add to card](#)
- puriFlash® Dry-load PF-DLE-F0004  
[Discover it](#) [Add to card](#)

##### We highly recommend

- Trolley  
AYHF20 [Add to card](#)
- Tubes 18x150 mm  
AW3842 [Add to card](#)
- Ballasting for 1/8" tubing - 5 units  
DZ7360 [Add to card](#)

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