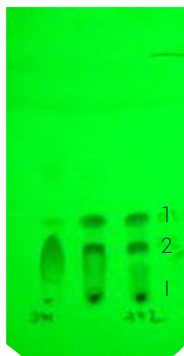




## 1. TLC method development



Mobile phase:  
70% Cyclohexane/ AcOEt 30%

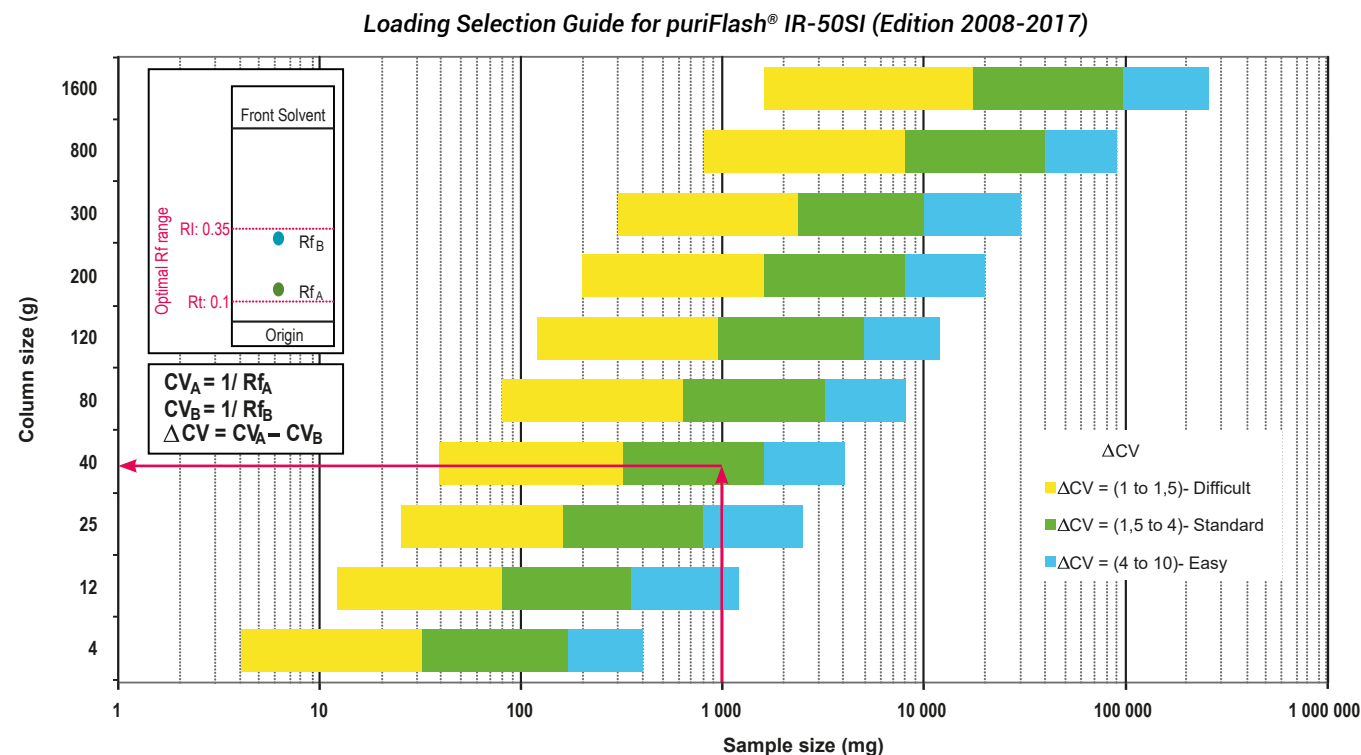
Compound 1 & 2: isomers

Compound	Rf	CV
1	0.3	3.33
2	0.2	5.00
1	0.15	6.67

$\Delta CV_{2-1} = 1.7$

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

Crude sample: 1g  
Column: PF-15SIHC-F0040  
Loading capacity: 2.5%



Customer has chosen to use PF-15SIHC-F0040 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0040 column.

### 3. Flash conditions

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

Solvents: A: Cyclohexane

B: AcOEt

Column: PF-15SIHC-F0040

Flow rate: 30mL/min

Injection mode: Solid deposit (Dry-load F0004)

Crude sample: 1g

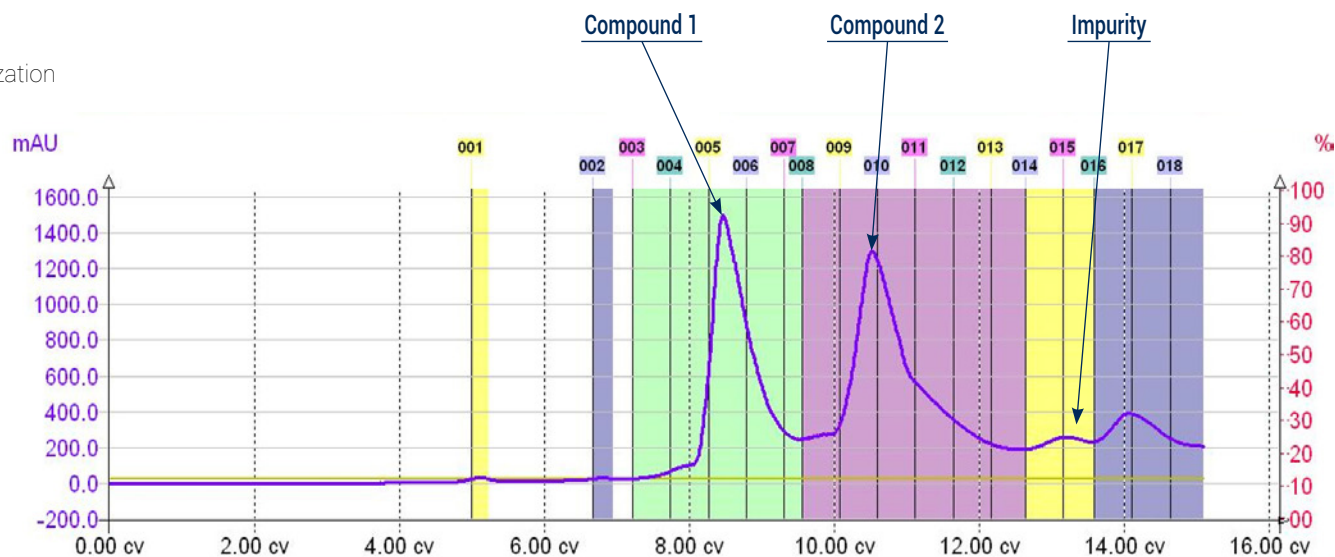
Detection: UV 210nm

Mode: Automatic Gradient Optimization

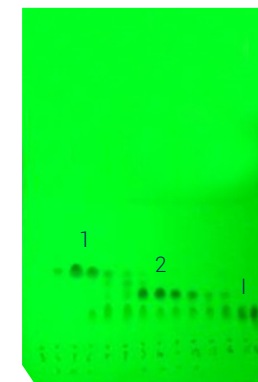
Pressure: 6bar

Elution conditions:

CV	A (%)	B (%)
0	100	0
5	80	20
10	70	30
14.25	40	60
15.08	5	95



### 4. TLC confirmation



#### To achieve this purification:

##### You will need

- puriFlash® 5.050  
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHC-F0040  
[Discover it](#) [Add to card](#)
- puriFlash® Dry-load PF-DLE-F0004  
[Discover it](#) [Add to card](#)

##### We highly recommend

- Magic box Flash AXF7T0 [Add to card](#)
- Safety waste cap with container 20L + Filter B1SUK0 [Add to card](#)
- 16x150mm Rack AYHE40 [Add to card](#)

##### Download our App

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

