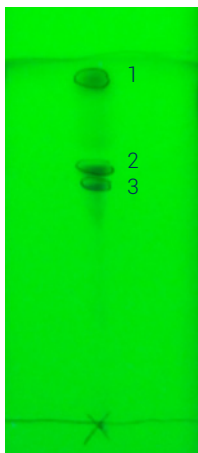


1. TLC method development

TLC 1



Mobile phase:
87% DCM / MeOH 13%

Compound	Rf	CV
1	0.95	1.05
2	0.68	1.47
3	0.64	1.56

$$\Delta CV_{3-2} = 0.09$$

Rf of compounds 2 and 3 are close, the separation will not be optimal on Flash column.
Genius provide new TLC conditions (TLC 2) in order to increase ΔRf & ΔCV .

TLC 2



Mobile phase:
90% Toluene / MeOH 10%

Compound	Rf	CV
1	0.57	1.75
2	0.31	3.23
3	0.25	4
4	0.18	5.56
5	0.14	7.14

2. Genius proposal



Among the columns proposed by Genius, we have selected a PF-15SIHP-F0012, which was available in stock :

TLC to Flash & Prep (Normal Phase)

 Crude sample mg

Additive

 Solvent 1
 %

 Solvent 2
 %

Additive



SELECT A COLUMN

Column	Stock
PF-30SIHP-F0012	<input type="checkbox"/>
PF-15SIHP-F0012	<input checked="" type="checkbox"/>
PF-30SIHP-F0025	<input type="checkbox"/>
PF-30SIHP-F0040	<input type="checkbox"/>
PF-30SIHP-F0080	<input type="checkbox"/>
PF-30SIHP-F0120	<input type="checkbox"/>

INJECTION MODE

The crude is fully soluble in the below conditions:

Toluene 98.9%

Methanol 1.1%

 Yes No

 Liquid mL (max 1.66 mL)

 Dry load

3. Flash conditions

Device: puriFlash® 5.020

Solvents: A: Toluene

B: Methanol

Column: PF-15SIHP-F0012

Flow rate: 15mL/min

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

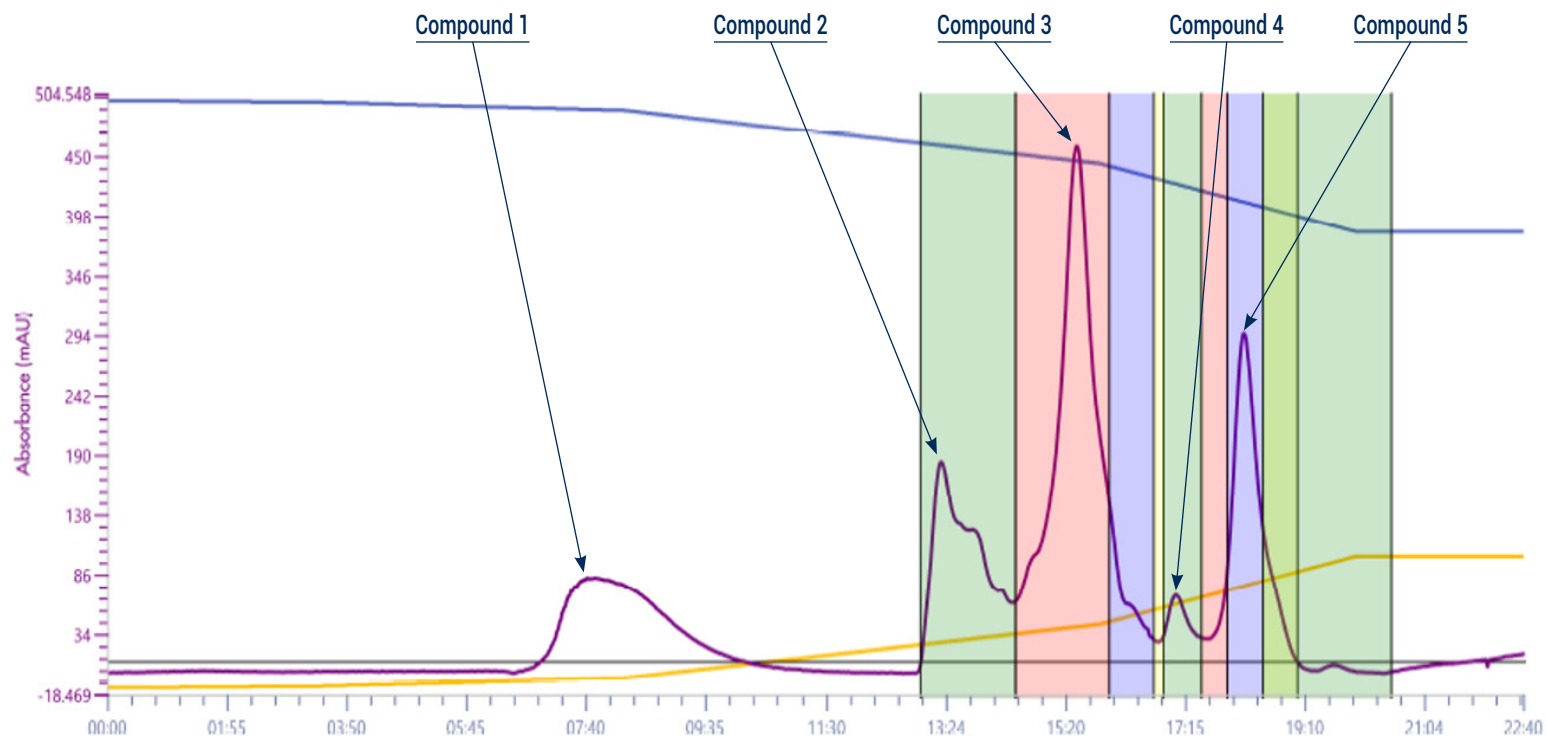
Crude sample: 100mg

Detection: UV 265nm

Pressure: 4bar

Elution conditions:

t (min)	A (%)	B (%)
00:00	98.9	1.1
03:27	98.6	1.4
08:17	97.3	2.7
15:52	88.4	11.6
20:00	77	23
26:13	77	23



To achieve this purification:

You will need

- puriFlash® 5.020
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15SIHP-F0012
[Discover it](#) [Add to card](#)
- puriFlash® Dry-load PF-DLE-F0004
[Discover it](#) [Add to card](#)

We highly recommend

- Ballasting for 1/8" tubing - 5 units DZ7360 [Add to card](#)
- Extractor with 2 extraction tubes + Kit AYHDZ0 [Add to card](#)
- 13x100mm Rack AYHE30 [Add to card](#)

Download our App

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

