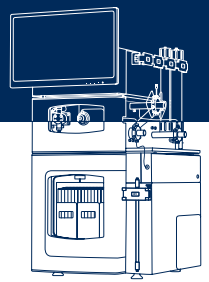
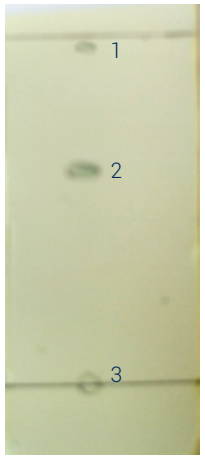
Purification of Fulvene Biotine using PF-15SIHP-F0012 Genius

Application Note #067



1. TLC method development



Mobile phase:
86 % Dichloromethane / MeOH 14 %

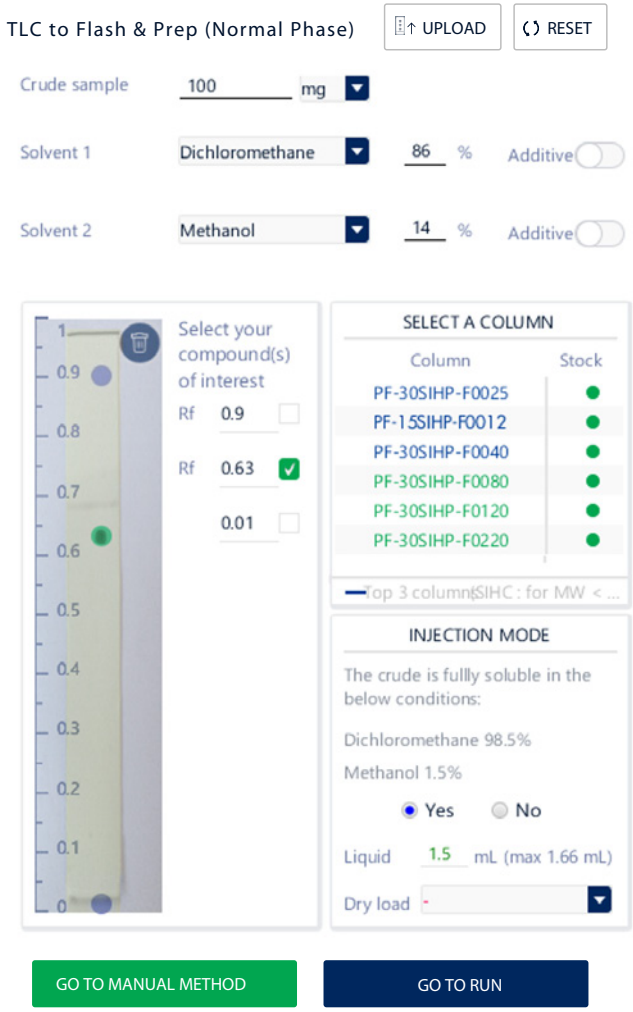
Compound of interest:
Compound 2

Compound	Rf	CV
1	0.9	1.11
2	0.63	1.59
3	0.01	100

$\Delta CV_{2-1} = 0.48$

2. Genius proposal

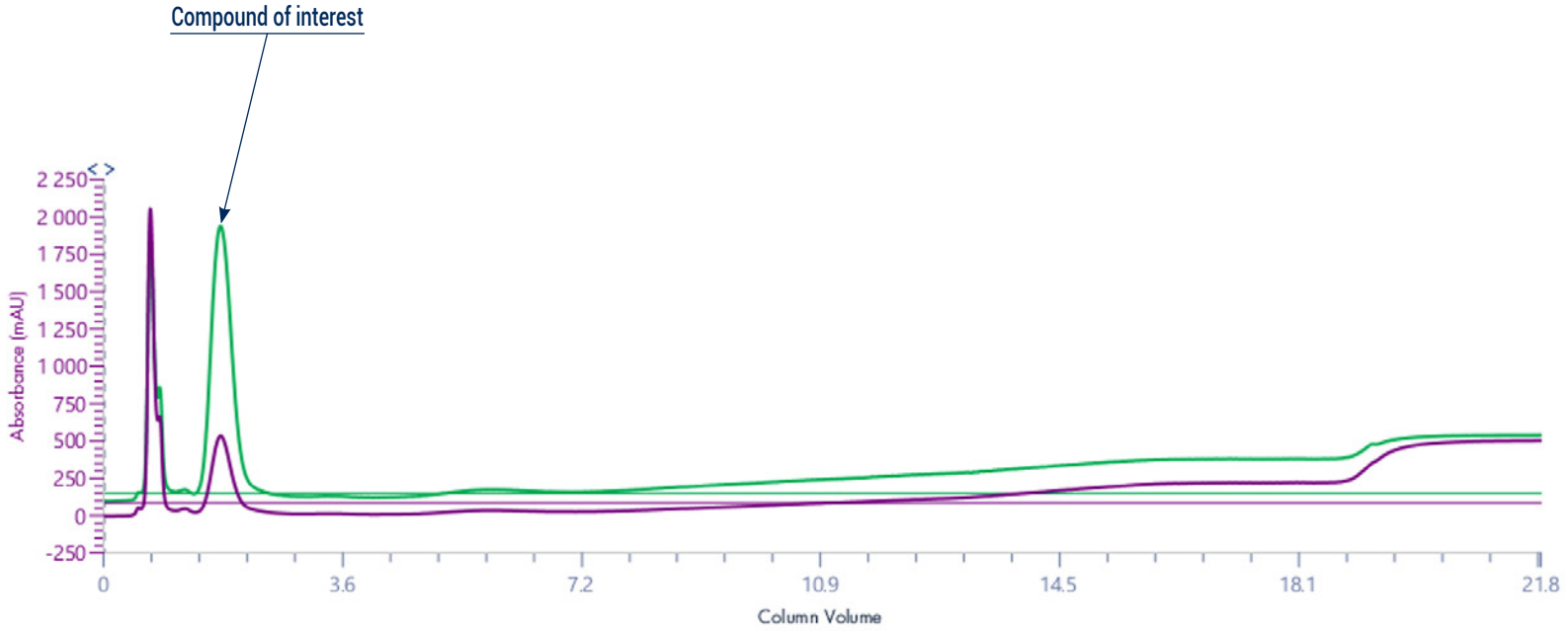
Among the columns proposed by Genius, we have selected a PF-15SIHP-F0012, which was available in stock :



3. Flash conditions

Device: puriFlash® 5.250P
Solvents: A: Dichloromethane
B: Methanol
Column: PF-15SIHP-F0012
Flow rate: 15mL/min
Injection mode: Liquid injection
Injection volume: 1.5mL
Concentration: 66.67 mg/mL
Crude sample: 100mg
Detection: UV 220nm (purple)
UV Scan 200-400nm (green)
Pressure: 5bar
Elution conditions:

CV	A (%)	B (%)
0.00	98.5	1.5
2.50	98.2	1.8
6.00	96.4	3.6
11.50	83.7	16.3
14.50	67.6	32.4
17.34	67.6	32.4
17.56	59	41
18.00	0	100
22.00	0	100



To achieve this purification:

You will need

- puriFlash® 5.250P
  Discover it Add to card
- puriFlash® column PF-15SIHP-F0012
  Discover it Add to card

We highly recommend

- Safety solvent caps kit - 4 units
  B0DAN0 Add to card
- Safety waste cap with container 5L + Filter
  B1SUJ0 Add to card
- Smartphone for TLC to Flash & Prep application
  PHONE0 Add to card

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