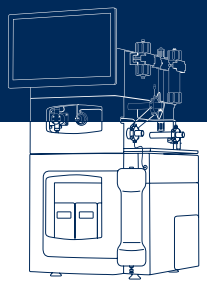
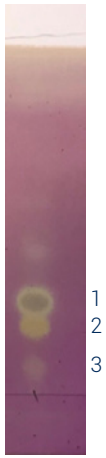
Purification of Nitrogenous Heterocyclic compounds using PF-15SIHP-F0025

Application Note #070



1. TLC method development



Mobile phase:
50% Heptane / 50% Ethyl Acetate

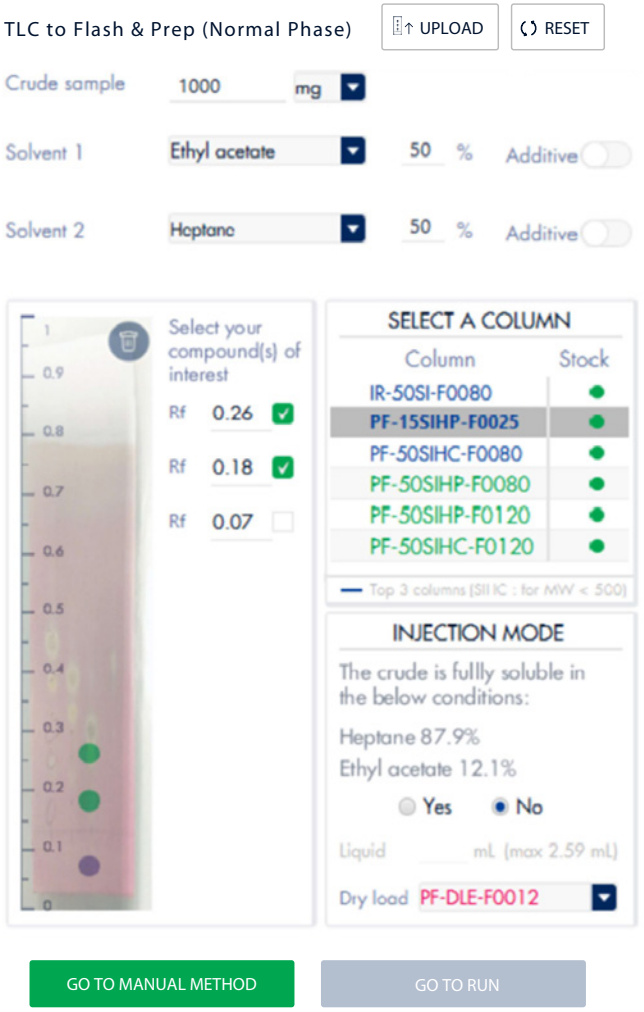
Compounds of interest:
Compounds 1 & 2

Compound	Rf	CV
1	0.26	3.85
2	0.18	5.56
3	0.07	14.29

$\Delta CV_{2-1} = 1.71$

2. TLC to flash transposition

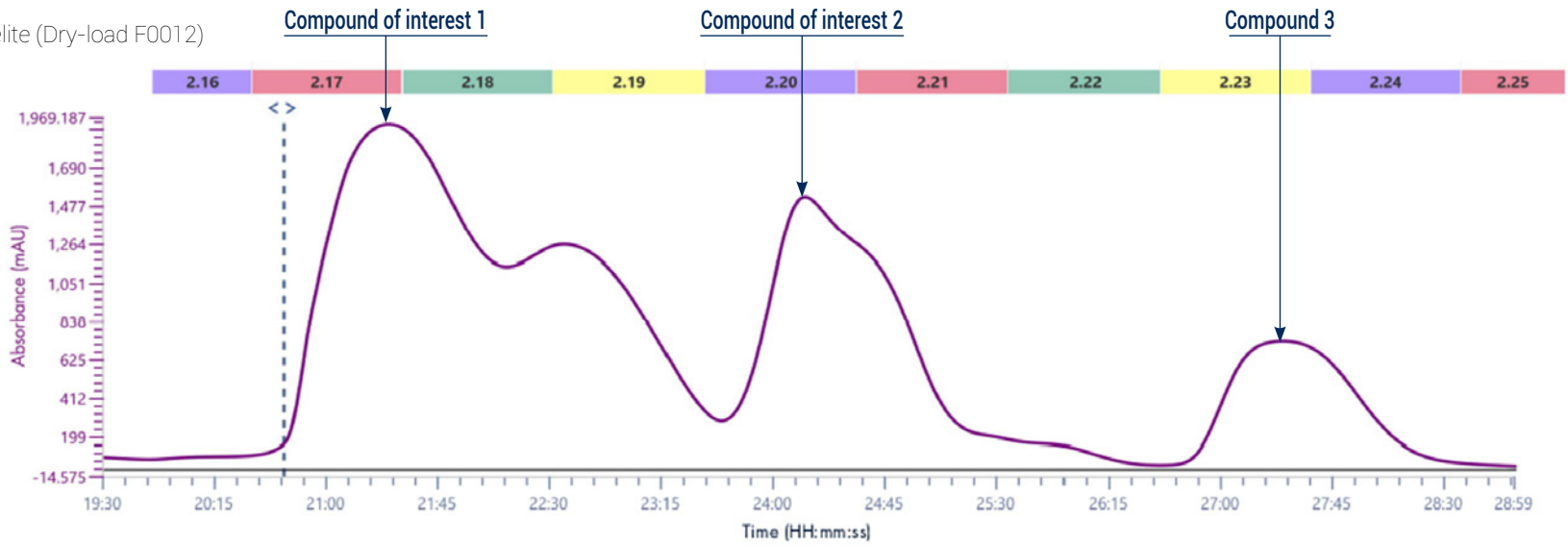
Among the columns proposed by Genius, we selected a column PF-15SIHP-F0025, available from stock.



3. Flash conditions

Device: puriFlash® 5.250
Solvents: A: Ethyl Acetate
B: Heptane
Column: PF-15SIHP-F0025
Flow rate: 15mL/min
Injection mode: Solid deposit with celite (Dry-load F0012)
Crude Sample: 1000mg
Detection: UV 254nm
Elution conditions:

t (min)	A (%)	B (%)
00:00	12.1	87.9
06:29	18.3	81.7
28:05	93.5	6.5
38:53	93.5	6.5



To achieve this purification:

You will need

- puriFlash® 5.250
  Discover it Add to card
- puriFlash® column PF-15SIHP-F0025
  Discover it Add to card
- puriFlash® Dry-load PF-DLE-F0012
  Discover it Add to card

We highly recommend

- Ballasting kit for 1/8" tubing
  DZ7360 Add to card
- Extractor with 2 extraction tubes + Kit
  AYHDZ0 Add to card
- Tubes 18x150mm
  AW3842 Add to card