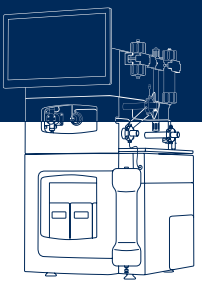
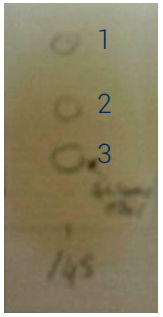
Purification of Dipyridamole using PF-15SIHP-F0025



1. TLC method development



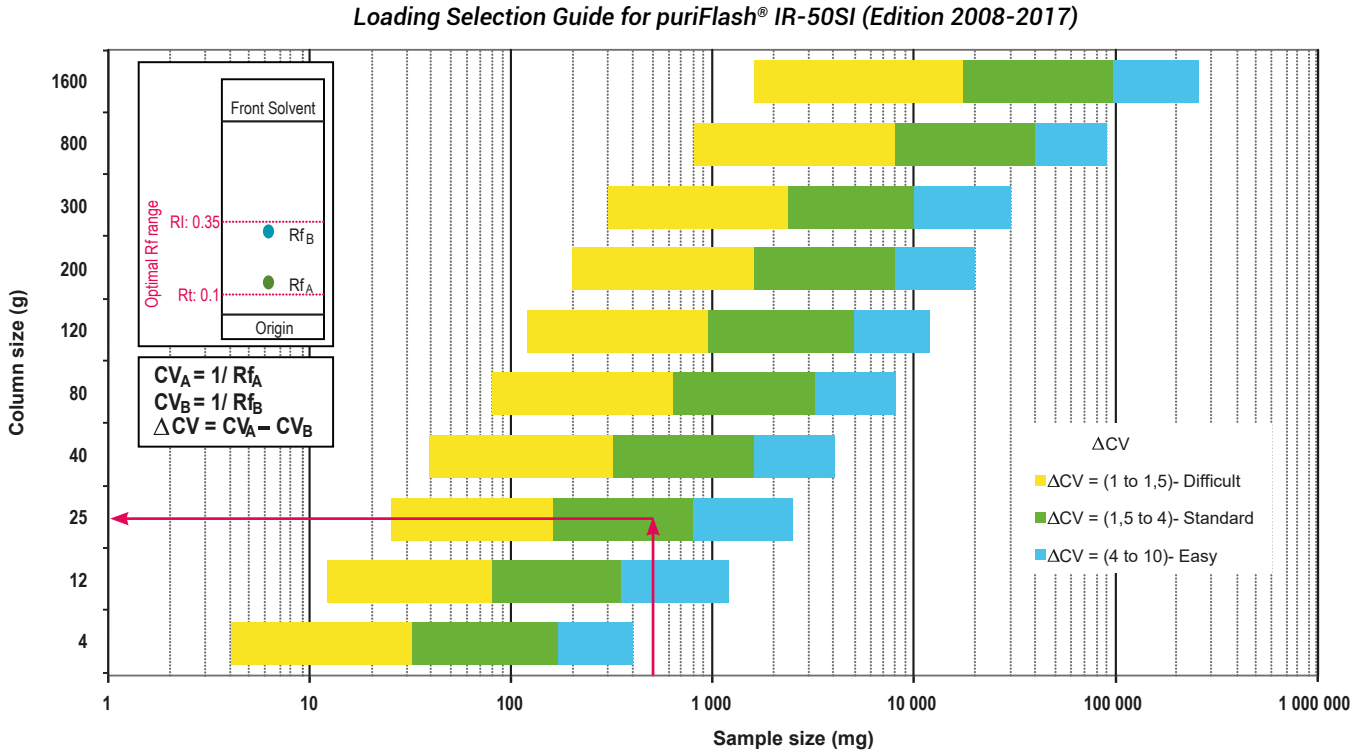
Mobile phase:
50% Heptane / Ethyl Acetate 50%

Compound	Rf	CV
1	0.66	1.52
2	0.43	2.33
3	0.26	3.8

$\Delta CV_{2\text{-}1}$=0.81

2. Choice of the column according to the ΔCV & crude sample mass

Crude sample: 500mg
Column: PF-15SIHP-F0025
Loading capacity: 2%

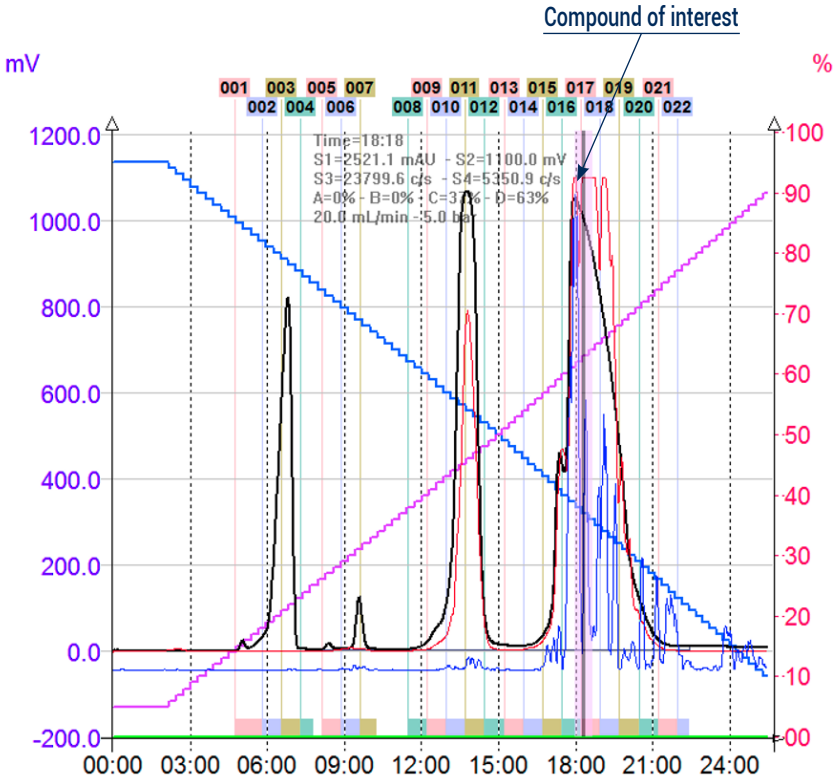


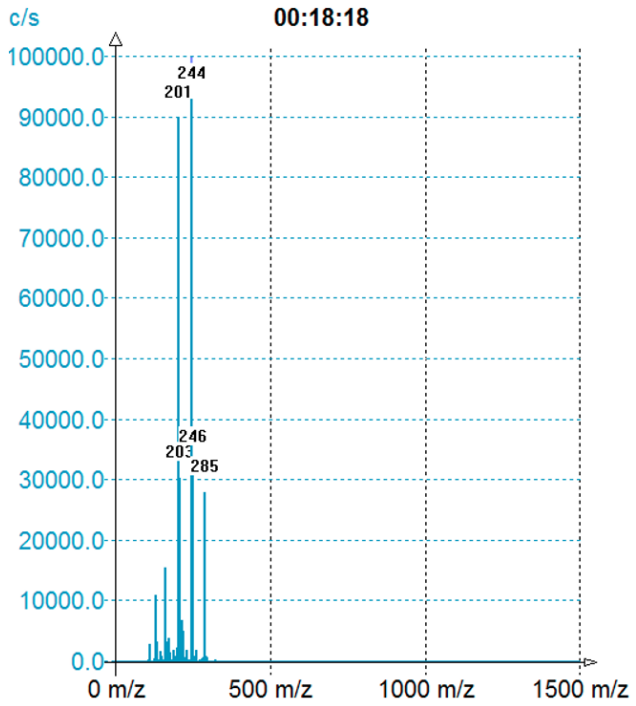
Customer has chosen to use PF-15SIHP-F0025 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0040 column.

3. Flash conditions

Device: puriFlash® 4250-iELSD-MS
(or now puriFlash® 5.250-MS pack iELSD)
Solvents: A: Heptane
B: Ethyl Acetate
Column: PF-15SIHP-F0025
Flow rate: 20mL/min
Injection mode: Liquid injection
Injection volume: 1mL
Detection: UV 254nm (Black), ELSD (Orange),
MS (APCI): TIC, XIC (m/z 244) (Blue)
Eluent conditions:

t (min)	A (%)	B (%)
00:00	95	5
02:00	95	5
25:00	10	90





To achieve this purification:

You will need

- puriFlash® 5.250
  Discover it Add to card
- puriFlash® MS
  Discover it Add to card
- Integrated ELSD
  Discover it Add to card
- puriFlash® column PF-15SIHP-F0025
  Discover it Add to card

We highly recommend

- Trolley
  AYHF20 Add to card
- Manometer ELSD
  FJ6720 Add to card
- Safety waste cap with container 5L + Filter
  B1SUJ0 Add to card

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