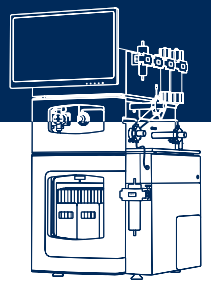
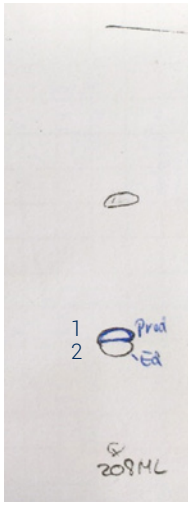
Purification of 2 diastereoisomers using PF-15SIHC-F0004

Application Note #001



1. TLC method development



Mobile phase:
75% Hexane / Ethyl Acetate 25%

Compound	Rf	CV
1	0.44	2.26
2	0.34	2.94

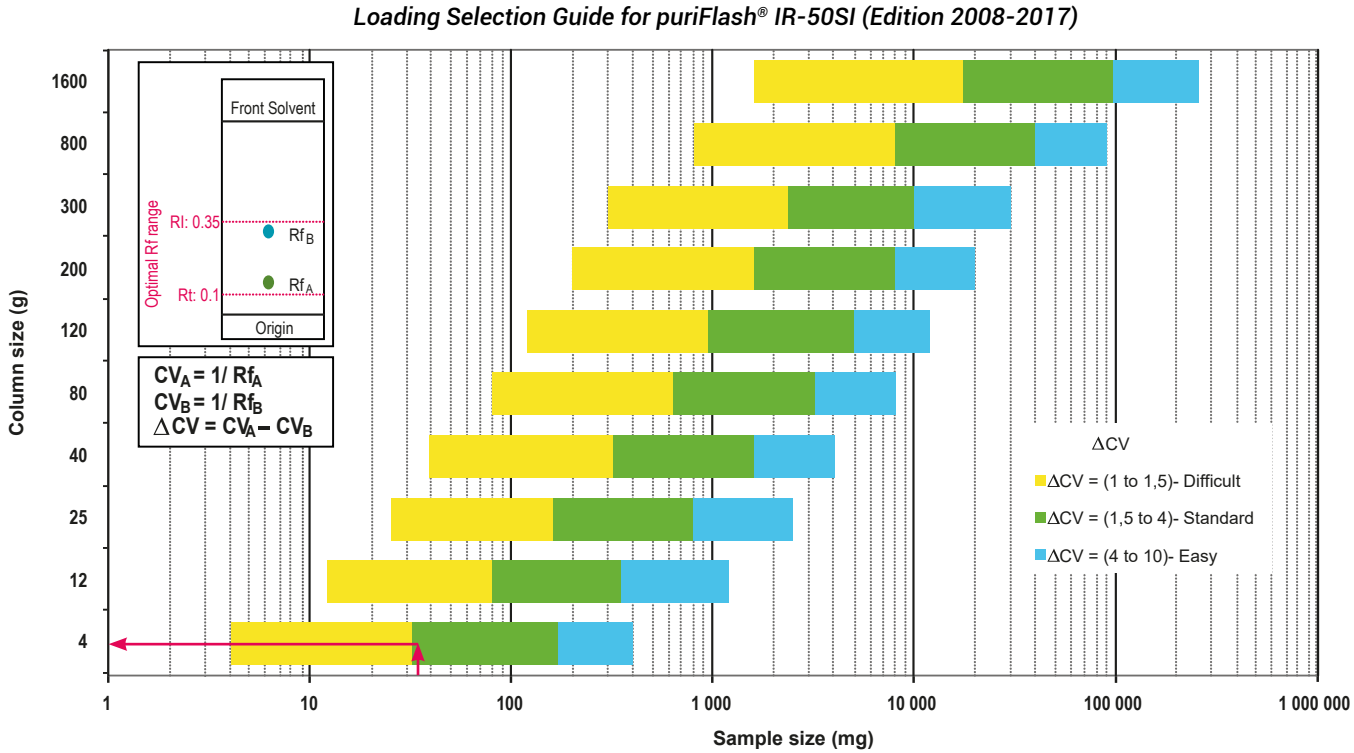
ΔCV=0.68

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

Crude sample: 32mg

Column: PF-15SIHC-F0004

Loading capacity: 0.8%

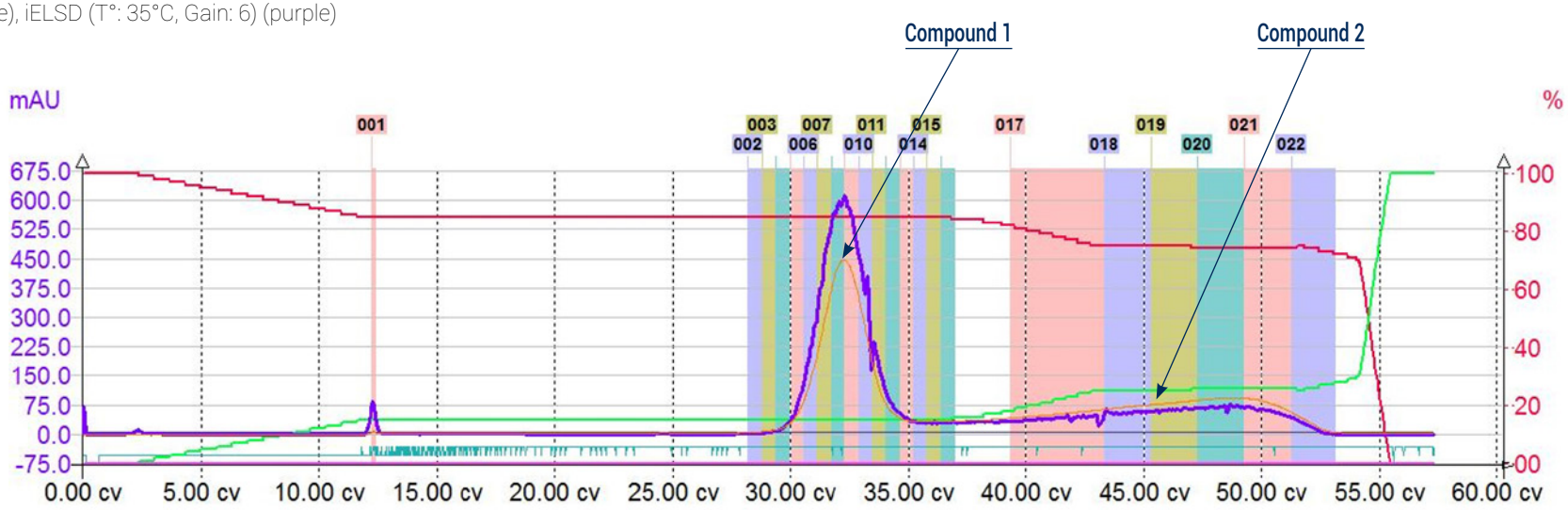


Customer has chosen to use PF-15SIHC-F0004 column to obtain a better separation (efficiency & purity) than with a IR-50SI-F0004 column.

3. Flash conditions

Device: puriFlash® 4125-iELSD (or now puriFlash® 5.125 pack-iELSD)
Solvents: A: Hexane
B: Ethyl Acetate
Column: PF-15SIHC-F0004
Flow rate: 7mL/min
Injection mode: Solid deposit with celite (Dry-load F0004)
Crude sample: 32mg
Detection: UV Scan 254-280nm (orange), iELSD (T°: 35°C, Gain: 6) (purple)
Mode: Automatic Gradient Optimization
Elution conditions:

CV	A (%)	B (%)
0	100	0
2	100	0
12	85	15
36	85	15



To achieve this purification:

You will need

- puriFlash® 5.125
  Discover it Add to card
- Integrated ELSD
  Discover it Add to card
- puriFlash® column PF-15SIHC-F0004
  Discover it Add to card
- puriFlash® Dry-load PF-DLE-F0004
  Discover it Add to card

We highly recommend

- Trolley
  AYHF20 Add to card
- Manometer ELSD
  FJ6720 Add to card
- Tube holding claw 16mm
  AYHEC0 Add to card

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