

1. Analytical conditions

Solvents: A: Water + 0.1% formic acid

B: Methanol + 0.1% formic acid

HPLC Column: US15C18HQ-250/046

Flow rate: 1 mL/min

Injection mode: Liquid injection

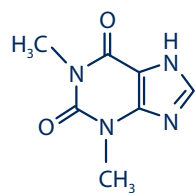
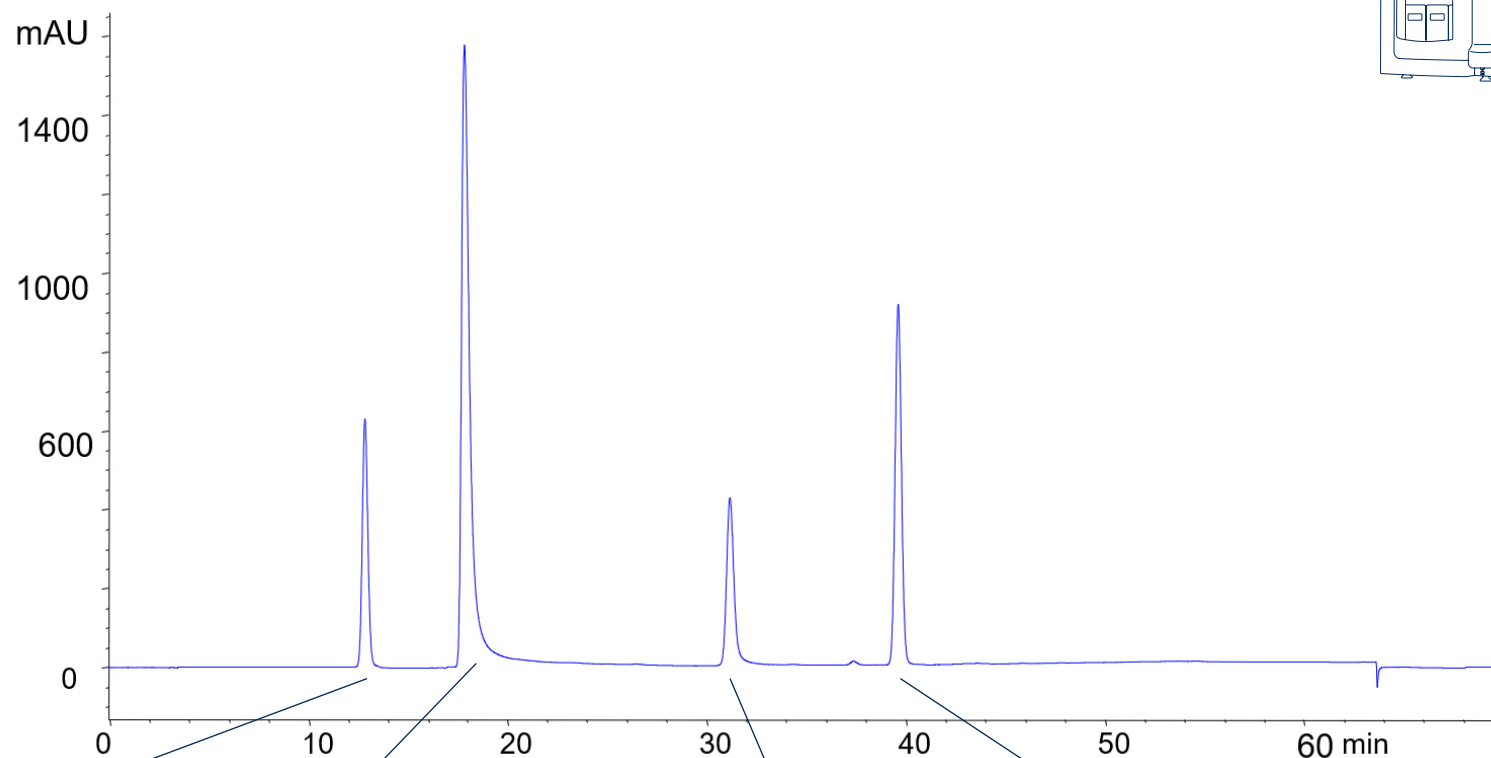
Injection volume: 3 μ L (6 μ g loaded on column)

Concentration: 2 mg/mL for each compound

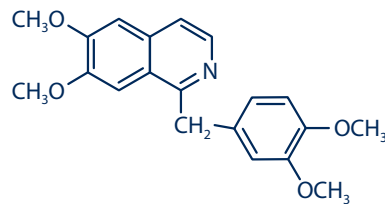
Detection: UV 254 nm

Elution conditions:

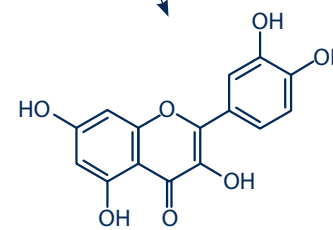
t (min)	A (%)	B (%)
00:00	90	10
50:00	0	100
60:00	0	100



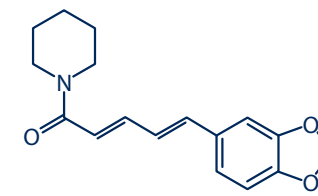
Theophylline
M=180.064



Papaverine
M= 339.147



Quercetin
M=302.042



Piperine
M=285.136

2. Flash conditions

Device: puriFlash® 4250-MS (or now puriFlash® 5.250MS)

Solvents: A: Water + 0.1% formic acid

B: Methanol + 0.1% formic acid

Column: PF-15C18HQ-F0025

Flow rate: 20mL/min

Injection mode: Liquid injection

Injection volume: 500µL (1.5mg loaded on column)

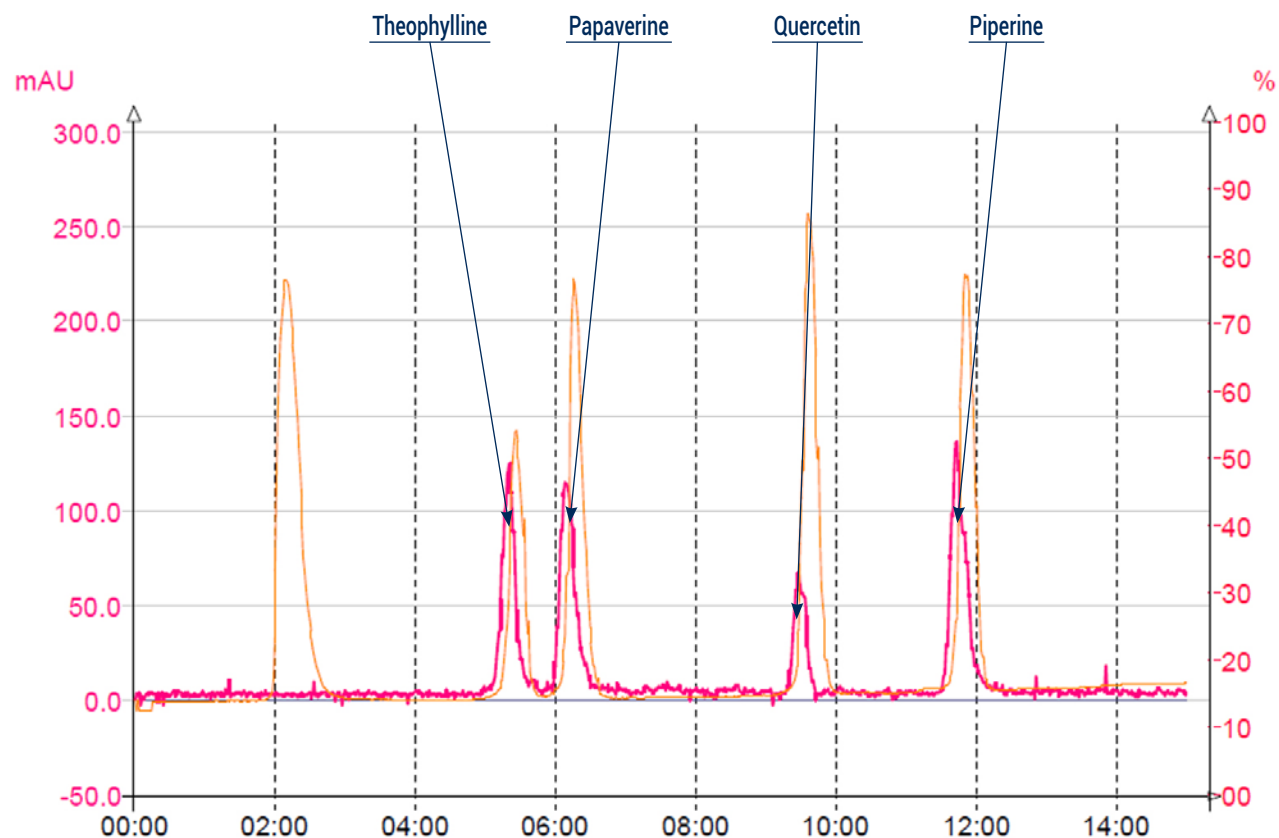
Concentration: 3mg/mL for each compound

Detection: UV Scan 200-600 nm (orange)

MS TIC (pink)

Elution conditions:

t (min)	A (%)	B (%)
00:00	90	10
12:00	0	100
15:00	0	100



To achieve this purification:

You will need

- puriFlash® 5.250
[Discover it](#) [Add to card](#)
- puriFlash® MS
[Discover it](#) [Add to card](#)
- puriFlash® column PF-15C18HQ-F0025
[Discover it](#) [Add to card](#)

We highly recommend

- 500µL Stainless Steel Loop with RFID tag
AYHELO [Add to card](#)
- 21x150mm Rack
AYHE60 [Add to card](#)
- Extractor with 2 extraction tubes + Kit
AYHDZ0 [Add to card](#)