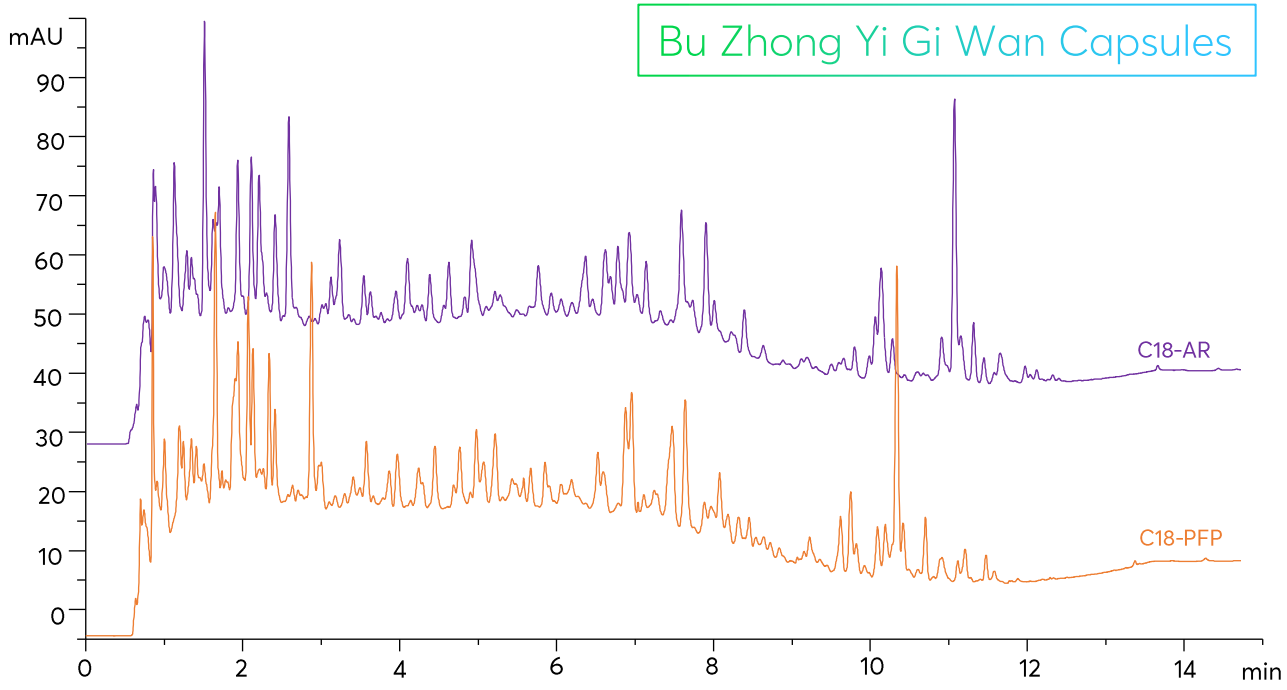
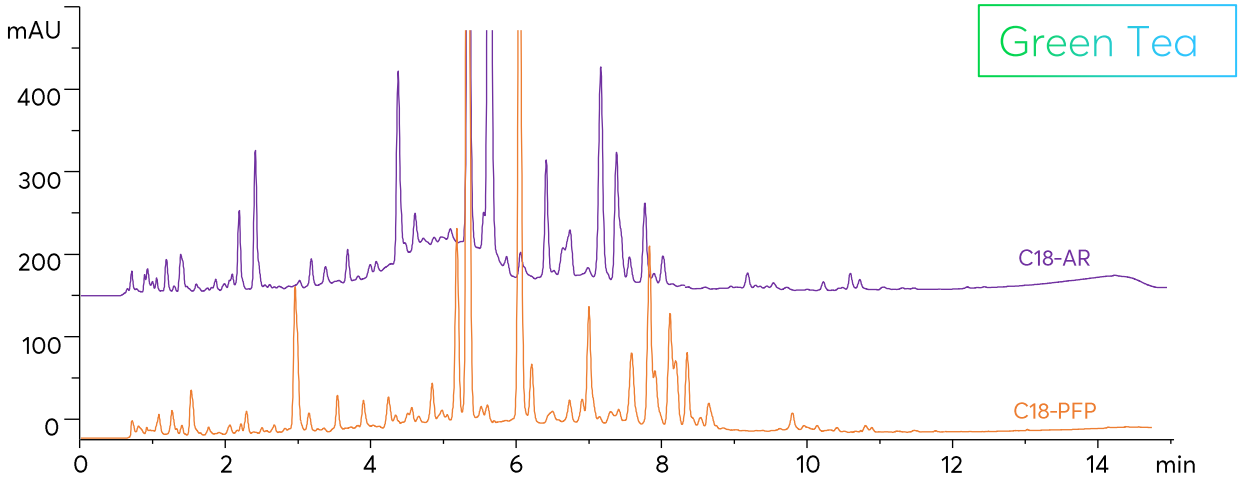
Chromatography Solutions

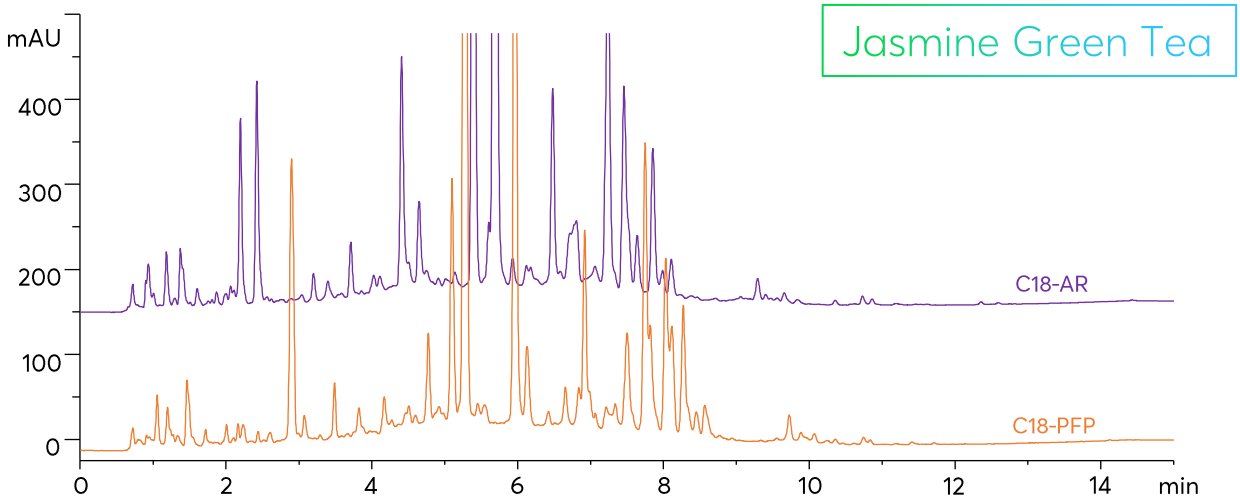
Application note #7790

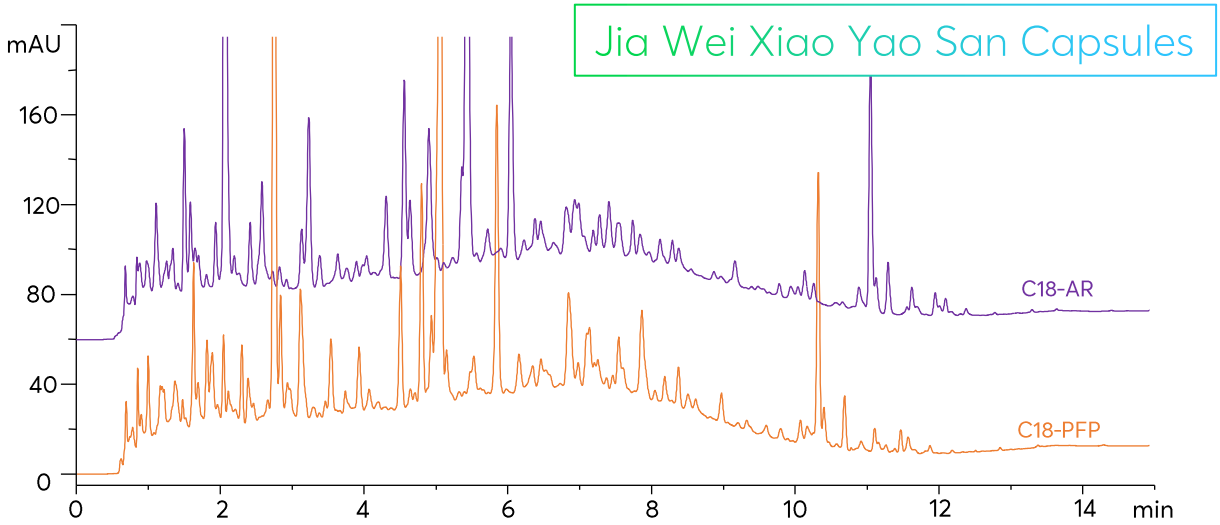
Traditional Chinese Medicines Chemical Profiling using Avantor® ACE® C18-AR and C18-PFP



Avantor® ACE®


Green Tea
mAU
400
300
200
100
0
C18-AR
C18-PFP
0
2
4
6
8
10
12
14
min


Jasmine Green Tea
mAU
400
300
200
100
0
C18-AR
C18-PFP
0
2
4
6
8
10
12
14
min


Jia Wei Xiao Yao San Capsules
mAU
160
120
80
40
0
C18-AR
C18-PFP
0
2
4
6
8
10
12
14
min

Method Details

CONDITIONS

Columns: Avantor® ACE® Excel® 3 C18-AR and Avantor® ACE® 3 C18-PFP

Particle Size: 3 µm

Dimensions: 100 x 4.6 mm

Mobile Phase: A: 0.1% formic acid in H_2O

B: 0.1% formic acid in MeOH

Gradient:

Time (mins)	% B
0	5
19	100
20	100
22	5
25	5

Flow Rate: 1.5 mL/min

Injection: 10 µL

Temperature: Ambient 21 °C

Detection: UV, 254 nm

Sample preparation: Teas: steeped in 30 mL of 80 °C water for 10 min

Capsules: 15 tablets ultrasonicated in 15 mL of 80 °C water for 10 min

Samples were cooled to ambient and filtered via syringe filters before injection

ORDERING TABLE

Product	Details	Size	Part Number
Avantor® ACE® Excel® 3 C18-AR	HPLC Column	100 x 4.6 mm	EXL-119-1046U
Avantor® ACE® 3 C18-PFP	HPLC Column	100 x 4.6 mm	ACE-1110-1046
VWR® Syringe Filters	Syringe filter nylon 25 mm 0.45 µm non-sterile	Pack of 100 items	514-1267
Methanol	VWR CHROMANORM® gradient grade	2.5 L	20864.320
Water	VWR CHROMANORM® super gradient grade	2.5 L	83650.320
Formic acid	VWR NORMAPUR® analytical reagent	100 mL	20318.180

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