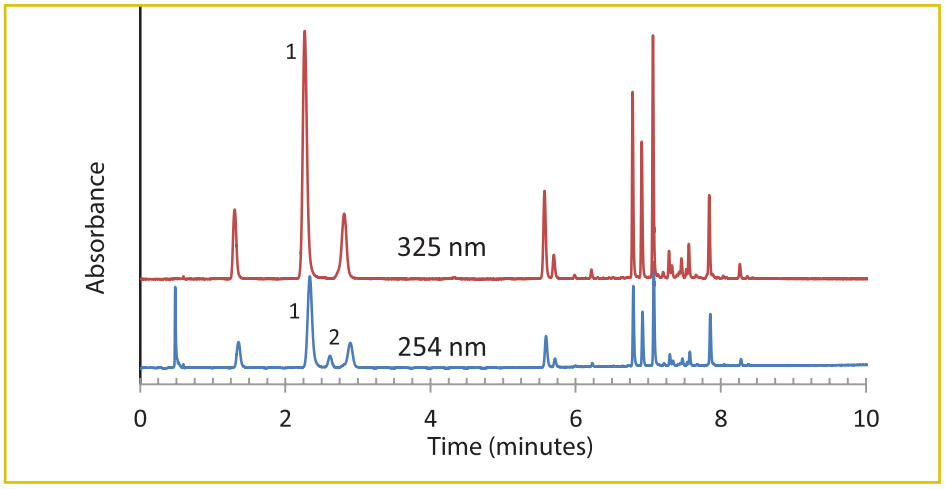
HALO®

FOOD / BEVERAGE

HPLC Analysis of Chlorogenic Acid in Green Coffee Extract on HALO® C18, 2.7 µm

Application Note 134-F



PEAK IDENTITIES:

1. Chlorogenic acid
2. Caffeine

Green coffee extract is a dietary supplement to aid in weight loss. Chlorogenic acid is its active ingredient. Here, a commercial dry extract was extracted with a solvent and analyzed on a HALO® C18, 2.7 µm column.

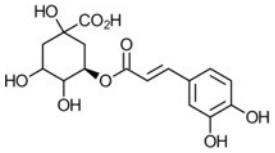
TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 µm, 3.0 x 100 mm
Part Number: 92813-602
Mobile Phase: A/B
A: Water with 0.1% formic acid
B: Acetonitrile with 0.1% formic acid

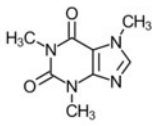
Gradient: Time (min)	**% B**
0.0	10
4.0	10
9.0	50
11.0	100
13.0	100

Flow Rate: 0.75 mL/min
Initial Pressure: 250 bar
Temperature: 30 °C
Detection: UV 254, 325 nm, VWD
Injection Volume: 1.0 µL
Sample Solvent: 50/50 water/acetonitrile
Response Time: 0.02 sec
Data Rate: 25 Hz
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
Extra Column Volume: ~14 µL

STRUCTURES:



Chlorogenic Acid



Caffeine