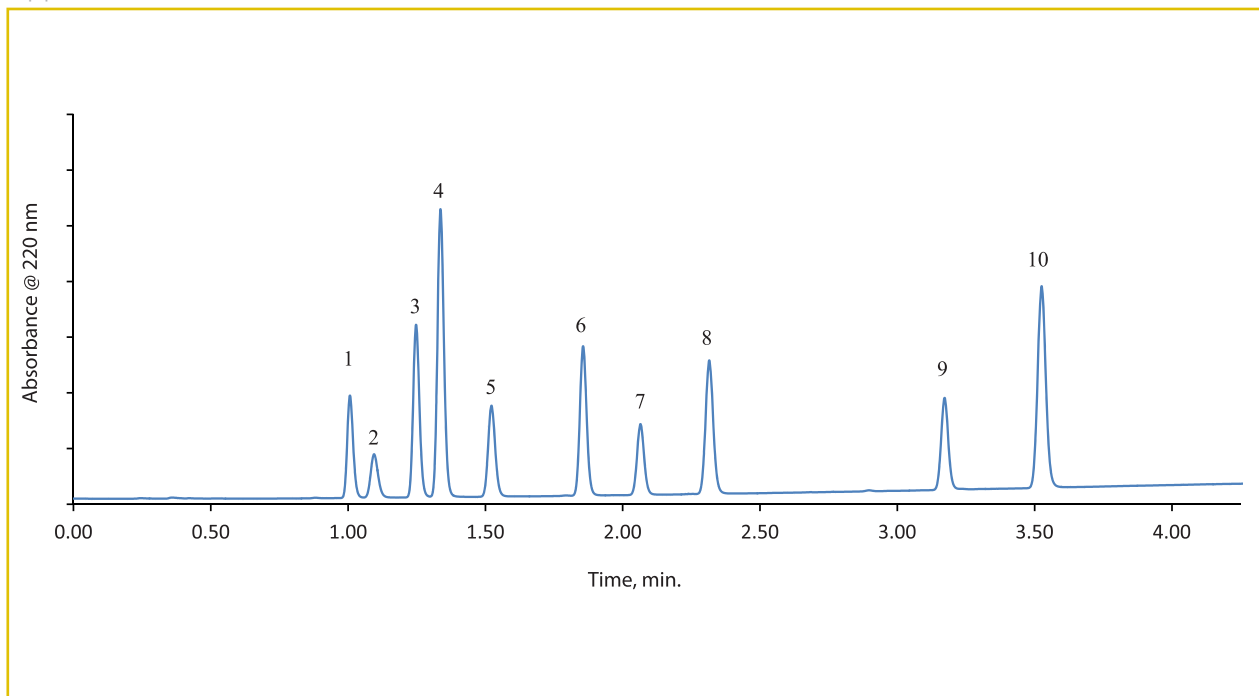




## Separation of Phenolic Acids on HALO<sup>®</sup> 90 Å RP-Amide, 2.0 µm

Application Note 190-P



### PEAK IDENTITIES:

1. Homovanillic acid
2. Caffeic acid
3. Syringic acid
4. Vanillic acid
5. Chlorogenic acid
6. Sinapic acid
7. Ferulic acid
8. p-Coumaric acid
9. Trans-cinnamic acid
10. Resveratrol

### TEST CONDITIONS:

**Column:** HALO 90 Å RP-Amide, 2.0 µm,  
2.1 x 100 mm

**Part Number:** 91812-607

**Mobile Phase:**

A: 20mM phosphoric acid

B: Methanol

Gradient:	Time (min)	% B
	0.00	30
	3.75	60
	4.25	60

**Flow Rate:** 0.5 mL/min

**Initial Pressure:** 716 bar

**Temperature:** 35 °C

**Detection:** UV 220 nm, PDA

**Injection Volume:** 0.5 µL

**Sample Solvent:** Methanol

**Response Time:** 0.025 sec

**Data Rate:** 40 Hz

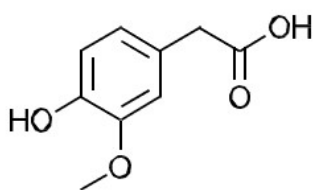
**Flow Cell:** 1.0 µL

**LC System:** Shimadzu Nexera X2

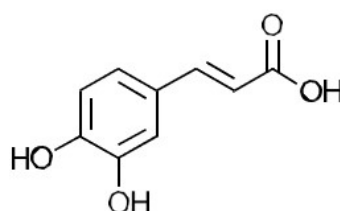




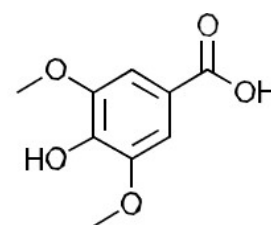
### STRUCTURES:



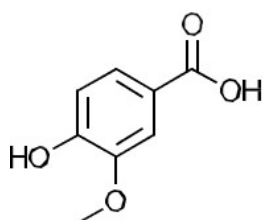
Homovanillic acid



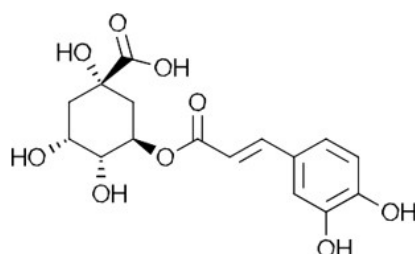
Caffeic acid



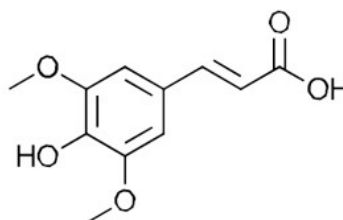
Syringic acid



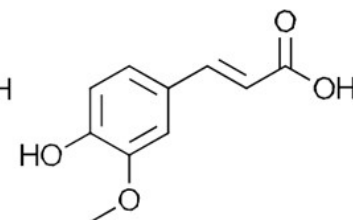
Vanillic acid



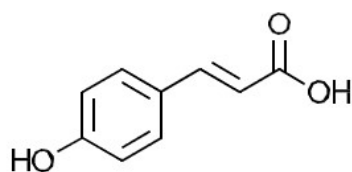
Chlorogenic acid



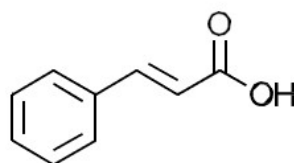
Sinapic acid



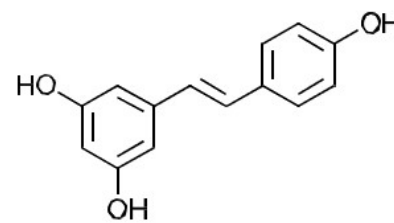
Ferulic acid



*p*- Coumaric acid



*trans*- Cinnamic acid



Resveratrol

