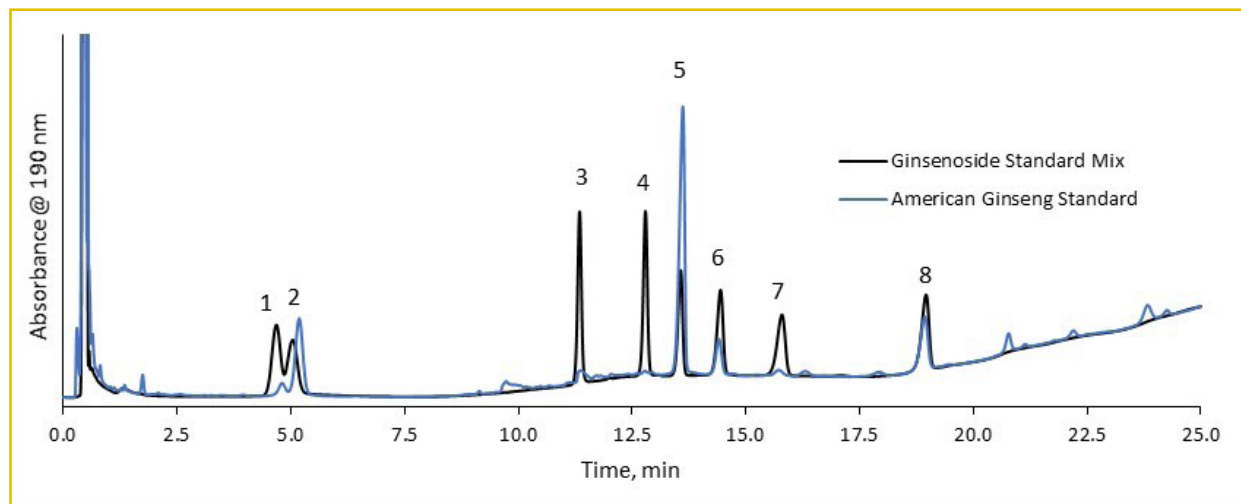




### Ginseng Analysis using 5 µm HALO® C18

225-F



#### TEST CONDITIONS:

**Column:** HALO 90 Å C18, 5 µm 3.0 x 50 mm

**Part Number:** 95813-402

**Mobile Phase A:** Water

**B:** Acetonitrile

Gradient:	Time	%B
	0.0	19
	5.6	19
	11.6	29
	17.0	29
	25.0	40

**Flow Rate:** 0.425 mL/min

**Pressure:** 60 bar

**Temperature:** 30 °C

**Detection:** 190 nm

**Injection Volume:** 4 µl

**Sample Solvent:** Methanol

**Data Rate:** 100 Hz

**Response Time:** 0.025 sec.

**Flow Cell:** 1 µL

**LC System:** Shimadzu Nexera

#### PEAK IDENTITIES:

- |                    |                    |
|--------------------|--------------------|
| 1. Ginsenoside Rg1 | 5. Ginsenoside Rb1 |
| 2. Ginsenoside Re  | 6. Ginsenoside Rc  |
| 3. Ginsenoside Rf  | 7. Ginsenoside Rb2 |
| 4. Ginsenoside Rg2 | 8. Ginsenoside Rd  |

Ginseng root has been used as a traditional medicine for centuries. It is believed to benefit the immune system, brain function, and act as an antioxidant that may reduce inflammation. Ginseng can be prepared as a dietary supplement, an herbal tea, or even used in cooking.

Ginsenosides are a class of natural product steroid saponins primarily found in ginseng root. Ginseng root from *Panax quinquefolium* (American ginseng) is overlaid with a standard mixture of eight ginsenosides on a 5 µm HALO® C18 column showing excellent resolution at low back pressures.

