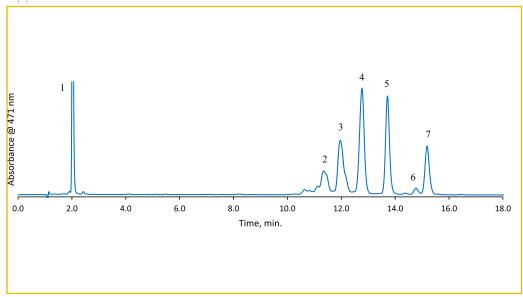
# HALO

### FOOD / BEVERAGE



## Separation of Carotenoids on HALO® C30

Application Note 191-V



#### **PEAK IDENTITIES:**

- 1. Lutein
- 2. cis-carotenoid 1
- 3. cis-carotenoid 2
- 4. α-Carotene
- 5. β-Carotene
- 6. cis-Lycopene
- 7. Lycopene

Carotenoids can be split into two main classes called xanthophylls and carotenes. They are responsible for absorbing light for photosynthesis and protecting chlorophyll from photodamage. A separation done by Nature's Sunshine Products shows excellent resolution of carotenoids on a HALO® C30 column.

#### **TEST CONDITIONS:**

**Column:** HALO 160 Å C30, 2.7 μm,

3.0 x 150 mm

**Part Number:** 92113-730

Mobile Phase: A: Methanol B: Ethanol

Gradient: Time (min) % B

0.0 0 20.0 40

Flow Rate: 0.65 mL/min Temperature: 38 °C

Detection: UV 471 nm, PDA Injection Volume: 0.6 μL Response Time: 2.0 sec Data Rate: 2.5 Hz

Flow Cell: 13 μL LC System: Agilent 1100

Data Courtesy of Nature's Sunshine Products

#### **STRUCTURES:**

Catechin

Naringin

Myricetin

Quercetin

Naringenin

Hesperetin