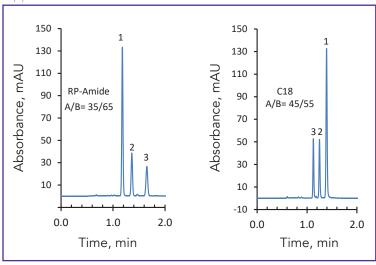


## **VITAMINS**



# **Analysis of Curcumins on** HALO® RP-Amide and HALO® C18

Application Note 148-F



#### **PEAK IDENTITIES:**

- 1. Curcumin
- 2. Desmethoxycurcumin
- 3. bis-Desmethoxycurcumin

Turmeric spice contains circumins that are used as dietary supplements. A methanolic extract of turmeric powder was filtered and analyzed on both HALO® C18 and RP-Amide columns, showing the different selectivity for circumin and two derivatives.

#### **TEST CONDITIONS:**

#### Columns:

1) HALO 90 Å C18, 2.7 μm, 4.6 x 100 mm

Part Number: 92814-602

2) HALO 90 Å RP-Amide, 2.7 µm, 4.6 x 100 mm

Part Number: 92814-607

Mobile Phase: A/B - See chart for ratios

A: 0.025 M phosphate buffer in water,

pH 3.0

B: Acetonitrile

Flow Rate: 1.8 mL/min

Pressure: 215 bar

Temperature: 35 °C

Detection: UV 420 nm, VWD

Injection Volume: 1.0 μL Sample Solvent: Methanol

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:**

Desmethoxycurcumin