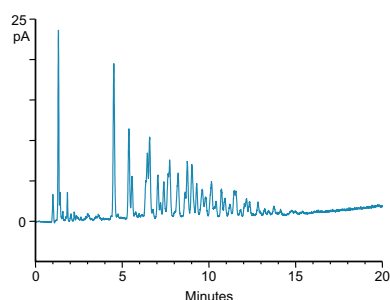
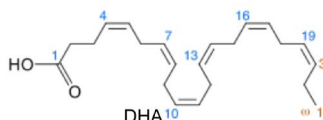
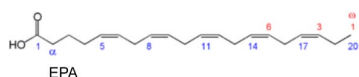
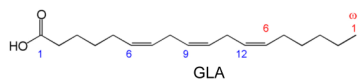
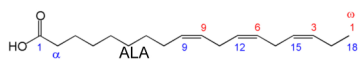


## Polyunsaturated Lipids in a Nutritional Supplement Using Accucore C30



Column: Thermo Scientific™ Accucore™ C30  
 Dimensions: 2.7  $\mu$ m, 4.6  $\times$  100 mm  
 LC System: Thermo Scientific™ Dionex™ UltiMate™ 3000  
 Mobile Phases: A: Acetonitrile  
 B: Ethyl acetate  
 C: 100 mM ammonium acetate, pH 5.2  
 Gradient times: -7.0 0.0 1.0 18.0 20.0  
 %A: 59 59 59 9 9  
 %B: 40 40 40 80 80  
 %C: 1 1 1 1 1  
 Flow Rate: 1.00 mL/min  
 Temperature: 20 °C  
 Injection Volume: 4  $\mu$ L  
 Detector: Thermo Scientific™ Dionex™ Corona™ ultra RS™ Charged Aerosol Detector, nebulizer 15 °C  
 Sample: 1.0 mg/mL oil in isopropanol



PB20767\_E 03/13S

The “essential fatty acids” are a group of nutritionally necessary lipids that are found in various sources. This example of a nutritional supplement is a blend of flaxseed oil, borage oil and fish oil rich in these fatty acids. The C30 surface excels at resolving subtle differences in large, hydrophobic molecules. Bonded to the Accucore 2.6  $\mu$ m, 150 Å substrate, it provides superior resolving power for highly complex samples. The Corona charged aerosol detector permits the use of solvents that otherwise would not be suitable for UV detection; in this example, ethyl acetate gave better performance than acetone or isopropanol.