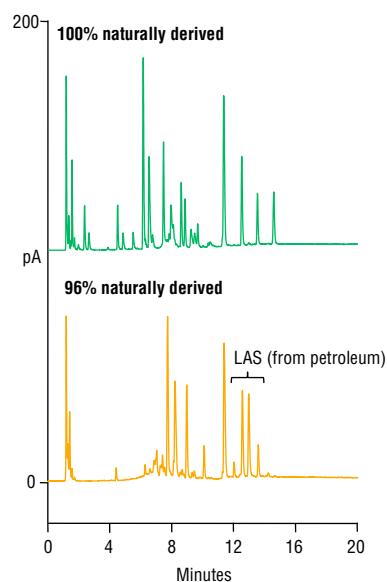


Profiles of Two Laundry Detergents Using the Acclaim Surfactant Plus Column



Column: Thermo Scientific™ Acclaim™ Surfactant Plus, 3 μ m
Dimensions: 3.0 x 150 mm
System: Thermo Scientific™ Dionex™ UltiMate™ 3000 RSLC system
Mobile Phases: A: Acetonitrile
B: 100 mM Ammonium acetate, pH 5.2
Gradient times: -8 0 10 20
%A: 25 25 80 80
%B: 75 75 20 20
Temperature: 30 °C
Flow Rate: 0.6 mL/min
Inj. Volume: 2 μ L
Detection: Thermo Scientific™ Dionex™ Corona™ *ultra* Charged Aerosol Detector (Gain = 100 pA; Filter = med; Nebulized temperature 20 °C)
Sample: Laundry detergents (20x dilution with D.I. water and filtered)

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Laundry detergents contain many components with some products now utilizing bio-degradable surfactants. While dodecyl benzene sulfonate (LAS), a petroleum derived bio-degradable anionic surfactant has been widely used in laundry detergents, modern formulations often use plant-derived surfactants due to their environmental and consumer safety benefits. The chromatograms above show the detailed profiles of two laundry detergents obtained on an Acclaim Surfactant Plus column – one is 100% plant derived and the other contains LAS.