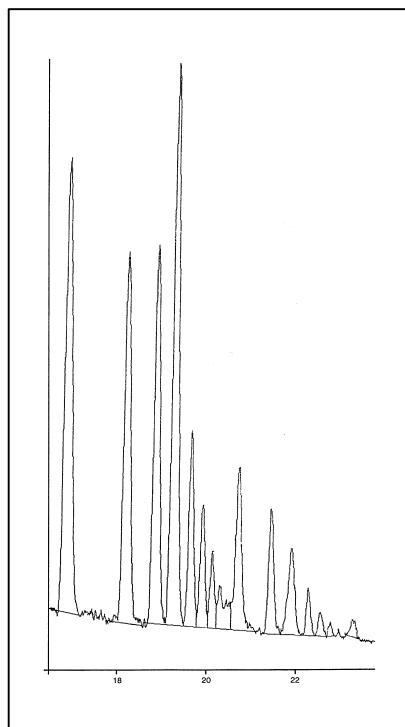


## Analysis of Anionic Detergents Using HPLC and ELSD Detections



The determination of the carbon chain distributions of alkyl sulfate and alkyl ethoxy sulfate detergents has previously been performed using difficult and time consuming methods. Such methods often involved hydrolysis, extraction and derivatization stages, which limit the accuracy of the final analysis. The authors present a novel procedure that can be used to determine the carbon chain distribution of anionic detergents in 30 minutes after a simple dilution of the original sample. Detergents that have no chromophore can also have their carbon-chain distributions determined using HPLC with ELSD detection.

### Chromatographic conditions :

*Column* : Hypersil 5  $\mu$ m C18 ODS 2 (250x4.6 mm)

*Injection Volume* : 20 $\mu$ l

*Flow Rate* : 1 ml/min

*Mobile Phase* : H<sub>2</sub>O/ACN (0.01M NH<sub>4</sub>COOH) (80/20)

*Nebulizer temperature* : 50°C

*Evaporation temperature* : 55°C

B. Walton; LC-GC INT. Volume 7, Number 3 March 1994. p149

**EUROSEP Instruments**

Tel. : +33(0)1 34 22 95 22 - Fax : +33(0)1 34 22 95 32

E-Mail: eurosep@eurosep.com - Internet <http://www.eurosep.com>