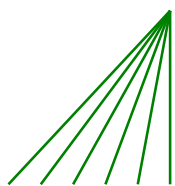


# M-Scan



## *Surfactant Analysis*

**M-Scan** was founded in 1979 to provide analytical and consulting services, particularly in organic mass spectrometry and chromatography. **M-Scan's** consulting laboratories in the UK, USA and Switzerland offer a full range of MS, GC and HPLC techniques and specialise in detailed compositional analysis. Appropriate analytical procedures are selected carefully to solve customer problems on a confidential, professional and cost-effective basis in accordance with GLP/cGMP as required.

**M-Scan** has extensive experience in the detailed characterisation of surface-active compounds, either singly, in mixtures or in finished products. Appropriate analytical procedures are selected to suit individual projects. These include FABMS, MALDITOF MS and ESMS.

- Positive ion ESMS or FABMS are well suited to the identification of cationic and amphoteric detergents, such as quaternary ammonium salts, N-oxides and sulphobetaines.
- Negative ion ESMS or FABMS is equally well suited to the identification of anionic detergents, such as alkylbenzene sulphonates and ether sulphates.
- MALDITOF MS is particularly suited to the identification of alkoxyated non-ionic detergents, such as alkylphenol ethoxylates, alcohol propoxylates and gasoline dispersants.
- LC-MS is particularly suited to the analysis of low levels of surfactants or where the sample has a complex matrix eg. in environmental samples.

With careful calibration both FABMS and MALDITOF MS can be used semi-quantitatively.

Negative ion ESMS and FABMS have allowed the unequivocal detection of gasoline lead replacement additive. These methods have also been used to analyse soil and ground water samples for trace level fluorinated sulphonate residues following the use of fire fighting foams.

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