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Lc Ms Analysis Of Olive

LC-TOF-MS Analysis The triglycerides (TAG) levels of the oils were detected using a positive mode LC/MS analysis method. Because TAGs are the main constituents of olive oils, only a simple dilution of the oils in acetonitrile was required prior to analysis. Samples were analyzed with a reversed-phase

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separation using a

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**Liquid Chromatography/ Mass
Spectrometry**

Analysis of Terbutylazine in Olive Oil by
LC/Ion Trap MS and LC/Time-of-Flight MS
Application Introduction Olive oil is one
of the most-used food products in
Mediterranean countries. The positive

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effects of olive oil on health have prompted a demand for this product world-wide. "Virgin" olive oil is obtained from the fruit of the olive tree (*Olea Europaea*) exclusively by mechanical and physical

Analysis of Terbutylazine in Olive Oil by LC/Ion Trap MS ...

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LC-MS analysis The LC/DAD/ESI-MS analysis of the olive leaf extracts led to the separation and identification of the majority of the constituents. Overall, 15 compounds were identified in AOLE and 16 compounds in MOLE belonging to two natural product classes: flavonoids and secoiridoids.

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Olive Leaf Extracts Are a Natural Source of Advanced ...

LC-MS method was used in conjunction with a statistical tool to perform Principal Components Analysis (PCA) to detect the adulteration of extra virgin olive oil. Experimental Samples Store-bought olive oils (oo), oils advertised as extra virgin olive oils (xvoo), various seed oils

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Detection of Adulterant Seed Oils in Extra Virgin Olive ...

The limits of quantification (LOQ) of the pesticides analysed in olive oil are 0.050 mg/kg as maximum, taking into account the dilution factor applied during the extraction process. 6.3 Linearity.

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Linearity was evaluated in matrix, using matrix-matched calibration curves. A) Pesticides analysed by LC-QqQ-MS/MS.

Validation Data of 127 Pesticides Using a Multiresidue ...

olive from blends and other oils, based solely on their TAG profiles.^{6,10} Compared to traditional approaches, the

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savings in time and cost of the UHPLC-CAD method for detecting olive oil purity will be of great benefit to the industry.

Experimental Chemicals and reagents • Acetonitrile, Fisher Scientific™ Optima™ LC/MS grade (P/N A955)

Determination of Olive Oil Purity Based on ...

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LC-MS-MS analysis of phytosterols in the saponified extracts of edible oils was carried out using an Applied Biosystems (Foster City, CA) API 4000 triple quadrupole mass spectrometer equipped with positive ion atmospheric pressure chemical ionization (APCI), a Shimadzu (Columbia, MD) Prominence HPLC system and an Agilent (Santa

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Clara, CA) Zorbax XDB-C18column (2.1 × 50 mm, 5 µm).
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Quantitative analysis of phytosterols in edible oils using ...

Abstract This paper reports the use of liquid chromatography/electrospray ionisation tandem mass spectrometry (LC/ESI-MS/MS) method for the

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identification and quantification of residues of the natural insect control agent Spinosad in olive oils.

LC/ESI-MS/MS method for the identification and ...

Do you have formaldehyde left after processing? Do you need to know what made a consumer's throat burn after

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ingesting olive oil? The Liquid Chromatograph Triple Quadrupole Mass Spectrometer (LC-MS/MS) can provide the data that leads to answers. The LC-MS/MS is a powerful tool for the detection of residual chemical compounds, [...]

LC-MS/MS: What is It? Why Use It?

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Olives have a high lipid content of about 80 to 85%, which can adversely affect pesticide recoveries and chromatographic systems. Therefore, a modified QuEChERS method for the extraction and analysis by gas chromatography/triple quadrupole (GC/MS/MS) multiple reaction monitoring method was employed.

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Multiresidue Analysis of Pesticides in Olive Samples Using ...

olives. In this study a statistical analysis of the chemical components of authentic monovariatal virgin olive oils from Spain was used to determine markers for the cultivars. These markers could be used to confirm the provenance and origins of

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olive oil samples. Different LC/MS methods were used to measure the levels of a large number

Differentiation of Cultivars of Spanish Olive Oils Using ...

Sterols in olive oils have been analyzed by liquid chromatography coupled to mass spectrometry with atmospheric-

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pressure chemical ionization in positive-ion mode. A simple procedure based on saponification and extraction of the compounds from olive oils was studied.

LC-MS Determination of Sterols in Olive Oil | SpringerLink

Three different sample preparations and LC/MS methods for the analysis of

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various categories of compounds from olive oil were described in previous application notes relating to olive oil analysis (see list of references).

Compounds detected in the oils included triacylglycerides (TAGs), secoiridoids, lignans and fatty acids.

Food Fraud Edible Oils Compendium

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Comprising two components, a liquid-phase separation system and a mass spectrometer, liquid chromatograph mass spectrometers (LC MS instruments) couple sample fractionation and analysis. The separation can be accomplished via standard liquid chromatography, HPLC, UPLC, or even nano-LC.

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LC MS Instrument | Labcompare.com

Detection of target glycidyl fatty acid esters is accomplished by LC-MS/MS using positive ion atmospheric pressure chemical ionization operating in Multiple Reaction Monitoring mode monitoring 2 ion transitions for each analyte. The

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method was tested on replicates of a virgin olive oil which was free of glycidyl esters.

Glycidyl fatty acid esters in food by LC-MS/MS: method ...

The new standards require specific methods of analysis for determining the characteristics of olive oil. Gas

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chromatography/ mass spectrometry (GC/MS analysis) is one of the approved methods for establishing levels of fatty composition and total sterol content. GC/MS analysis is frequently performed to measure variants in vegetable oil.

GC/MS Analysis Tests Olive Oil Purity

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The analysis of pesticide residues in olive oil is very challenging, because of the inherent complexity of the matrix, mainly comprising triglycerides (98–99%). This drives the need for different strategies to isolate or to extract the pesticide fraction from the whole fatty matrix.

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**Trends in Analytical Chemistry, Vol.
26, No. 3, 2007 ...**

Liquid chromatography-mass spectrometry (LC-MS) is an analytical chemistry technique that combines the physical separation capabilities of liquid chromatography (or HPLC) with the mass analysis capabilities of mass spectrometry (MS). Coupled

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chromatography - MS systems are popular in chemical analysis because the individual capabilities of each technique are enhanced synergistically.

Liquid chromatography-mass spectrometry - Wikipedia

Liquid chromatography coupled to tandem mass spectrometry (LC MS/MS)

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represents the state-of-the-art tool for an accurate and reliable quantification of NM from CSF (Cox et al., 2015; Han et al., 2018), given its sensitivity, selectivity and linearity in the response over a broad span of analyte concentrations (Jiang et al., 2016; Voehringer et ...

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