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Olive overatrol And
olive oil matrices
demonstrated the
method applicability
for quantitative
analysis of
multiresidue pesticides
in high water, high oil,
and high starch
contents with potential
implication for use on
other food matrices.

Comprehensive
LC/MS/MS Workflow of
Pesticide Residues in
Food Using the Agilent

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6470 Triple Quadrupole
LC/MS System And

**Comprehensive
LC/MS/MS Workflow
of Pesticide
Residues in ...**

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

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acetonitrile was
required prior to
analysis. Samples were
analyzed with a
reversed-phase
separation using a

**Liquid
Chromatography/
Mass Spectrometry**

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

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

Validation of the
method included
calibration and
determination of
recovery and
repeatability was
carried out.

LC-MS

Determination of Sterols in Olive Oil |

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SpringerLink

LC/MS Analysis of Polar
Components in Olive
Oils Polar Compound
Extraction Liquid-liquid
extraction was
performed to enrich
the polar components
of the oils for improved
sensitivity. Extraction
also reduced the high
levels of hydrophobic
triacylglycerides and
diacylglycerides, which
would be retained on
reversed-phase

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Analysis Of Olive
Fruit Contents Of
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
effects of olive oil on
health have prompted
a demand for this
product world-wide.

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Analysis Of Olive
Fruit Contents Of
"Virgin" olive oil is
obtained from the fruit
of the olive tree (*Olea
Europaea*) exclusively
by mechanical and
physical

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

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

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Analysis Of Olive
Fruit Contents Of
for the identification
and quantification of
residues of the natural
insect control agent
Spinosad in olive oils.
The method
determines the active
ingredients Spinosyns
A and D and two minor
metabolites Spinosyns
B and K ...

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

Exploratory analysis of
human urine by LC-ESI-

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Analysis Of Olive
Fruit Contents Of
TOF MS after high
intake of olive oil:
understanding the
metabolism of
polyphenols Anal
Bioanal Chem . 2010
Sep;398(1):463-75.
doi: 10.1007/s00216-0
10-3899-x.

**Exploratory analysis
of human urine by
LC-ESI-TOF MS after**

...

Olive oil authenticity
studies by target and
nontarget LC-QTOF-MS

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Analysis Of Olive
Fruit Contents Of

combined with
advanced chemometric
techniques. Kalogiouri
NP(1), Alygizakis NA(1),
Aalizadeh R(1),
Thomaidis NS(2).

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Olive oil authenticity studies by target and nontarget LC ...

analyzed by LC-QTOF
and LC-QqQ MS/MS.

2.5. LC-QTOF MS/MS
confirmatory analysis
of oleocanthal,
oleacein, and acetal
forms in extracts from
VOO Identification of
the two olive phenols
and the hemiacetal
and acetal artifacts
was conducted by
LC-QTOF MS/MS
confirmatory analysis

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Fruit Contents Of
in accurate mode.

Analyses were
performed by reversed-
phase liquid

Compounds Full
Study
**Quantitative method
for determination of
oleocanthal and ...**

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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Fruit Contents Of
Resistant And
Other Therapeutic
Compounds Full
Study

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 ...

injected to LC-MS / MS, while other GC-amenable compounds were treated with the modified QuEChERS procedure for GC-MS / MS analysis. The

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method is an extension of the LIB 4517 to include olive oil.

(PDF) Analysis of Pesticides in Olive Oil Using a Modified

...

olive from blends and other oils, based solely on their TAG profiles.^{6,10} Compared to traditional approaches, the savings in time and cost of the UHPLC-CAD method for detecting

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Fruit Contents Of
Research And
Other Therapeutic
Compounds Full
Study

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 ...

Total Ion
Chromatogram LC/MS
With Atmospheric
Pressure Chemical
Ionization in negative

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Fruit Contents Of
polarity of extra virgin
olive oils (xvoo) and
different seed oils
Other Therapeutic
Figure 2. Principal
Components Analysis
(PCA) plot of extra
Study
virgin olive oils (xvoo),
refined olive oils (oo),
and different seed oils.
10.2 9.8 1 1.0 soy
xvooA 0.31 0.8 13.7
10.7 10.2 xvoo 10 ...

Detection of Adulterant Seed Oils in Extra Virgin Olive

...

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Analysis Of Olive
Fruit Contents Of
of compounds from
GC/MS analysis and of
elements from ICP-MS
analysis. References 1.
Differentiation of Olive
Varieties by the
Triacylglyceride Levels
of Oils - Statistical
Analysis of LC/MS
Results, Application
Note, Robert Seward
and Catherine Stacey,
PerkinElmer, Inc. 2.
Markers for Spanish
Olive Oil Cultivars -
Statistical Analysis of

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**Food Fraud Edible
Oils Compendium**

Aadil Bajoub, Alegría
Carrasco-Pancorbo,
Noureddine Ouazzani,
Alberto Fernández-
Gutiérrez, Mu Naushad,
Mohammad Khan,
UHPLC-MS in Virgin
Olive Oil Analysis, Ultra
Performance Liquid
Chromatography Mass
Spectrometry,
10.1201/b16670,
(213-242), (2014).

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Fruit Contents Of

**A simplified method
for HPLC-MS
analysis of sterols in**

...
In the present study,
ultrahigh pressure
liquid chromatography
coupled with CAD
detection was applied
to the analysis of extra-
virgin olive oil
triglycerides. ... has
published several
scientific papers and
book chapters and he
is editor of two books
focused on sample

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Analysis Of Olive
Fruit Contents Of
treatment and LC-MS in
food analysis.

**Charged aerosol
detection for LC
analysis of
triglycerides ...**

Versatile, Sensitive,
and Robust Native
LC-MS Platform for
Intact Mass Analysis of
Protein Drugs Yuetian
Yan Analytical
Chemistry Group,
Regeneron
Pharmaceuticals Inc.,
777 Old Saw Mill River

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York 10591-6707,
United States

**Versatile, Sensitive,
and Robust Native
LC-MS Platform for**

...

2 17 U HP LC - MS in V
irgin Olive Oil A nalysis
the re cent papers cov
er some o f the most
impor t a nt su bjects
in t he el d of V O O
ana l - ys is, a fact that
a llo ws us to s tr uct ur
e ...

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Fruit Contents Of

**(PDF) UHPLC-MS in
Virgin Olive Oil
Analysis**

The new standards require specific methods of analysis for determining the characteristics of olive oil. Gas chromatography/ mass spectrometry (GC/MS analysis) is one of the approved methods for establishing levels of fatty composition and total sterol content.

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GC/MS analysis is
frequently performed
to measure variants in
vegetable oil.
Other Therapeutic
Compounds Full
Study

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