# GC Application ID No.: 23859

# FAMEs In Regular Olive Oil by GC/FID on Zebron ZB-FAME (30 m)

Column:	Zebron ZB-FAME, GC Cap. Column 30m x 0.25mm x 0.2um , Ea						
Phase:	Proprietary Pesticides Phase						
Dimensions:	30 meters x 0.25 mm x 0.2 μm						
Order No:	7HG-G033-10						
<b>Oven Profile:</b>	100 °C for 2 min to 140 °C @ 10 °C/min to 190 °C @ 3 °C/min to 260 °C @ 30 °C/min for 2 min						
<b>Carrier Gas:</b>	Constant Flow Helium, 1.2 mL/min						
Injection:	Split 50:1 1 µL @ 240°C						
Detection:	Flame Ionization (FID) (260°C)						
Analyst Note:	Recommended Liner: Zebron PLUS Single Taper with Wool, 4 mm ID Liner Part No.: AG2-0A11-05 (for Agilent systems) Inlet Seal: AG0-8620 (Gold Plated Easy Seal) Septum: AG0-4696 (PhenoRed-400)						
	Sample Preparation: 1. Strata® Si-1 Tube, 1 g/6 mL (Part No.: 8B-S012-JCH) on a vacuum or positive pressure manifold 2. West ward drawth four of house of house of the state o						

- 2. Wash cartridge with 6 mL of hexane
- 3. Load oil solution (0.12 g of oil in 0.5 mL of hexane)

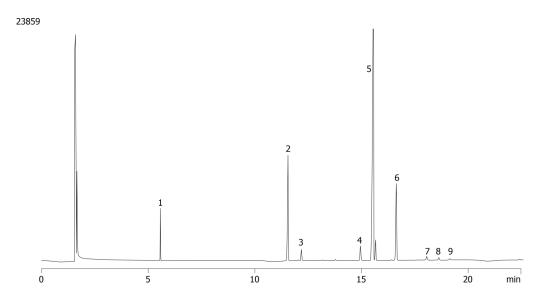
- Elute with 10 mL of hexane/diethyl ether (87:13)
  Evaporate eluate under a steady stream of nitrogen
  Dissolve purified oil residue in 1mL of heptane
  Add 0.1 mL of 2N potassium hydroxide in methanol to purified oil solution
- Cap tube and shake vigorously for 15 seconds
  Leave to separate until upper layer becomes clear
- 10. Extract upper layer for GC analysis



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#### Products used in this application:





## **ANALYTES:**

- C11:0 (I.S.) 1
- 2 C16:0
- 3 C16:1 cis 9
- 4 C18:0
- C18:1 cis 9 5
- C18:2 cis 9,12 6
- 7 C18:3 cis 9,12,15
- C20:0 8
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## **PRODUCT DESCRIPTION:**

Strata® SI-1 Silica (55 µm, 70 Å), 1 g / 6 mL, Tubes , 30/Pk

Order No.: 8B-S012-JCH

# SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

**Note:** The solvent volumes shown below are for a 1 g bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

### **Condition:**

#### Load:

Elute:

Add 0.12 g of oil to 0.5 mL of Hexane, load onto cartridge

Wash:			
Desci			
Dry:			

### Final Prep and Analysis:

To reconstituted sample, add 0.1 mL of 2 N Potassium hydroxide in methanol. Cap tube and shake vigorously for 15 seconds. Leave to separate until upper layer becomes clear. Extract

Inject: 1  $\mu L$  on HPLC Flame Ionization (FID) @  $\$  (260°C)

ANALYTES:		Spiked Conc. (ng/mL)	Log P	рКа	% Rec	%RSC (n=0)
1	C11:0 (I.S.)	0				
2	C16:0	0				
3	C16:1 cis 9	0				
4	C18:0	0				
5	C18:1 cis 9	0				
6	C18:2 cis 9,12	0				
7	C18:3 cis 9,12,15	0				
8	C20:0	0				
9	C20:1 cis 11	0				

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at info@phenomenex.com

