

## FAMES In Soybean Oil by GC/FID on Zebron ZB-FAME (60 m)

**Column:** Zebron ZB-FAME, GC Cap.Column 60m x 0.25mm x 0.2µm, Ea  
**Phase:** Proprietary Pesticides Phase  
**Dimensions:** 60 meters x 0.25 mm x 0.2 µm  
**Order No:** 7KG-G033-10  
**Oven Profile:** 100 °C for 2 min to 165 °C @ 10 °C/min to 200 °C @ 1.5 °C/min to 280 °C @ 15 °C/min for 1 min

**Carrier Gas:** Constant Flow Helium, 1.2 mL/min

**Injection:** Split 50:1 1 µL @ 240°C

**Detection:** Flame Ionization (FID) (260°C)

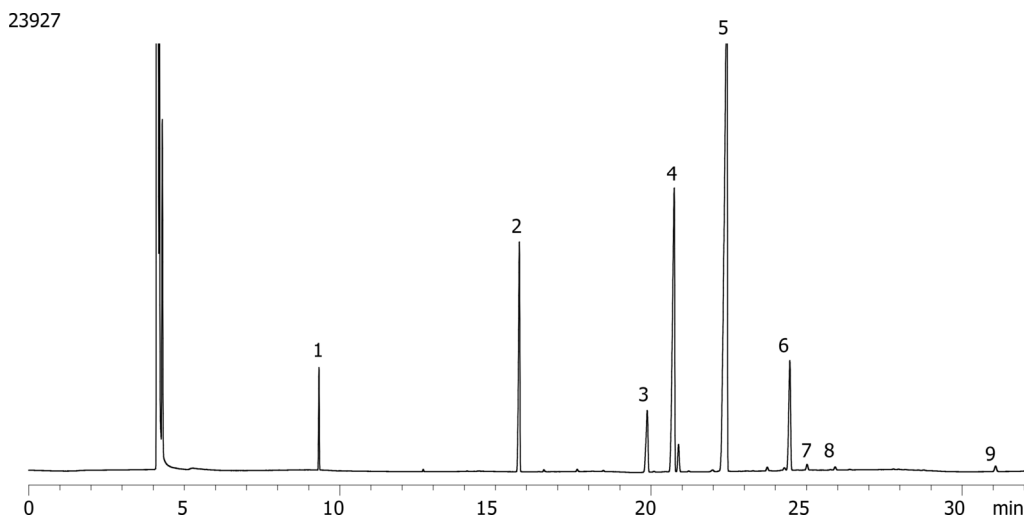
**Analyst Note:** Recommended Accessories:  
 Recommended Liner: Zebron PLUS Single Taper with Wool, 4 mm ID  
 Liner Part No.: AG2-0A11-05 (for Agilent systems)  
 Inlet Seal: AG0-8620 (Gold Plated Easy Seal)  
 Septum: AG0-4696 (PhenoRed-400)

## Sample Preparation:

1. Strata® Si-1 Tube, 1 g/6 mL (Part No.: 8B-S012-JCH) on a vacuum or positive pressure manifold
2. Wash cartridge with 6 mL of hexane
3. Load oil solution (0.12 g of oil in 0.5 mL of hexane)
4. Elute with 10 mL of hexane/diethyl ether (87:13)
5. Evaporate eluate under a steady stream of nitrogen
6. Dissolve purified oil residue in 1mL of heptane
7. Add 0.1 mL of 2N potassium hydroxide in methanol to purified oil solution
8. Cap tube and shake vigorously for 15 seconds
9. Leave to separate until upper layer becomes clear
10. Extract upper layer for GC analysis



Products used in this application:



## ANALYTES:

- 1 C11:0
- 2 C16:0
- 3 C18:0
- 4 C18:1 cis 9
- 5 C18:2 cis 9,12
- 6 C18:3 cis 9,12,15
- 7 C20:0
- 8 C20:1 cis 11
- 9 C22:0

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