

**FAMES In Peanut Oil by GC/FID on Zebron ZB-FAME**

**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:** 180 °C isothermal

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

**Injection:** Split 100:1 1 µL @ 240°C

**Detection:** Flame Ionization (FID) (240°C)

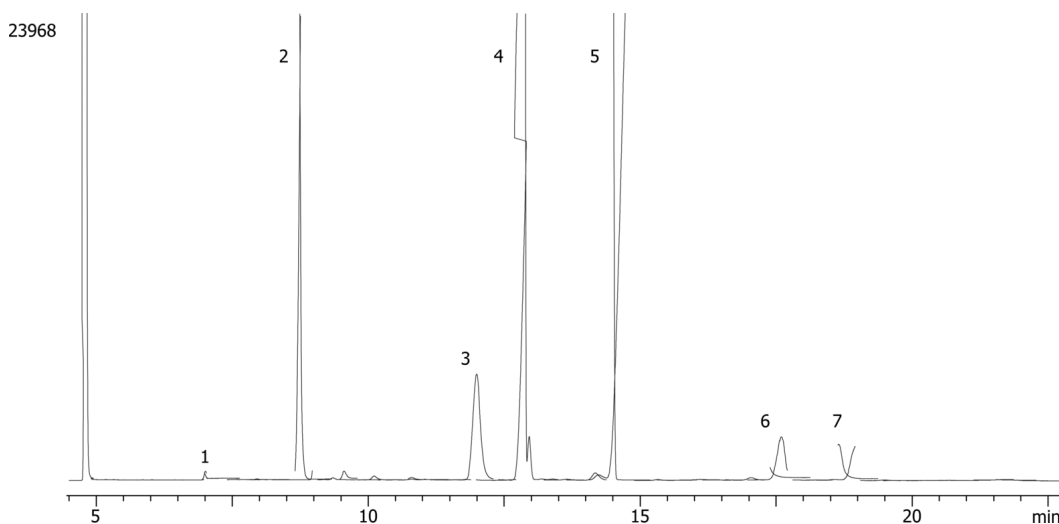
**Analyst Note:** Recommended Accessories:  
Recommended Liner: Zebron PLUS Single Taper with Wool, 4 mm ID  
Liner Part No.: AG2-0A11-05 (for Agilent systems)  
Inlet Seal: AG0-8620 (Gold Plated Easy Seal)  
Septum: AG0-4696 (PhenoRed-400)

**Sample Preparation:**

1. Weigh 0.2 g of sample into a glass test tube
2. Add 3.8 mL of hexane and vortex
3. Condition SPE tube (Strata® Si-1, 2 g/12 mL, Part No.: 8B-S012-KDG) under vacuum with 6 mL of hexane; do not let bed go dry
4. Load sample with light vacuum
5. Elute with 5 mL of hexane:ethyl acetate (87:13)
6. Evaporate under nitrogen at 35 °C
7. Reconstitute with 4 mL of hexane
8. Add 200 µL of 2 M potassium hydroxide/methanol solution and vortex
9. Leave at room temperature for 5 minutes
10. Add 2 mL of deionized water and vortex
11. Leave to separate until upper layer becomes clear
12. Extract upper layer for GC analysis



Products used in this application:

**ANALYTES:**

- 1 C13:0
- 2 C16:0
- 3 C18:0
- 4 C18:1 cis 9
- 5 C18:2 trans 9,12
- 6 C20:0
- 7 C20:1 cis 11

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