

## ASTM D6584: Free and Total Glycerin in B-100 Biodiesel Methyl Esters

**Column:** Zebtron™ ZB-5HT, GC Cap. Column 15 m x 0.32 mm x 0.10 μm, Ea  
**Phase:** 5% Phenyl 95% Dimethylpolysiloxane  
**Dimensions:** 15 meters x 0.32 mm x 0.1 μm  
**Order No:** 7EM-G015-02  
**Oven Profile:** 50 °C for 1 min. to 180 °C at 15 °C/min. to 230 °C at 7 °C/min. to 380 °C at 30 °C/min. for 10 min.

**Carrier Gas:** Constant Flow Helium, 3 mL/min

**Injection:** On-Column :1 1 μL @ 53°C

**Detection:** Flame Ionization (FID) (380°C)

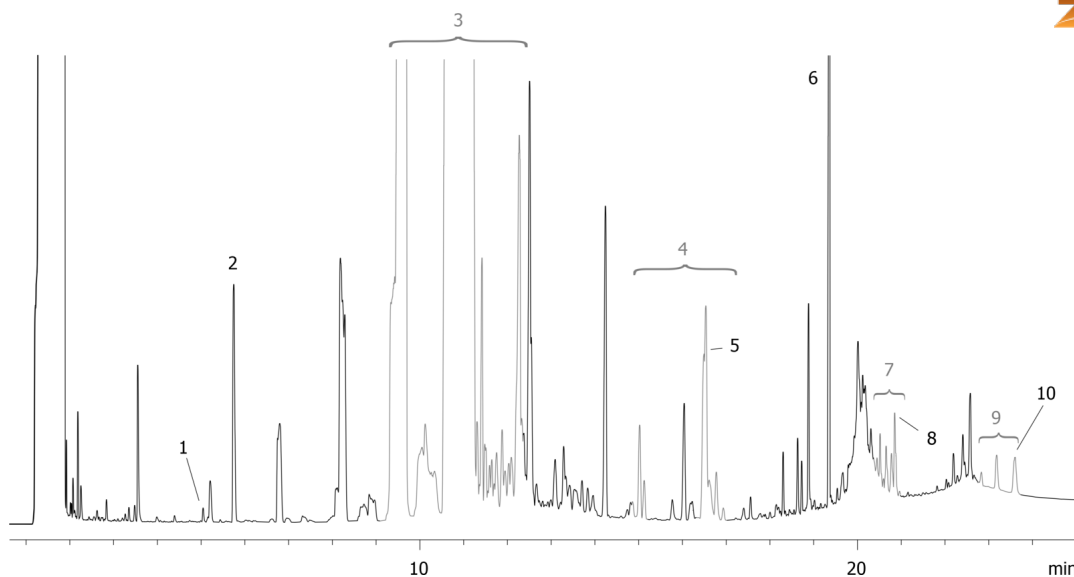
**Analyst Note:** A 2.0 m x 0.53 mm Guard Column was connected to the analytical column per ASTM method requirements.



Products used in this application:



16211



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### ANALYTES:

- 1 Glycerol
- 2 Butanetriol
- 3 Ester
- 4 Monoglycerides
- 5 1-Monooleoyl-rac-glycerol
- 6 Tricaprin
- 7 Diglycerides
- 8 1,3-Diolein
- 9 Triglycerides
- 10 Triolein

