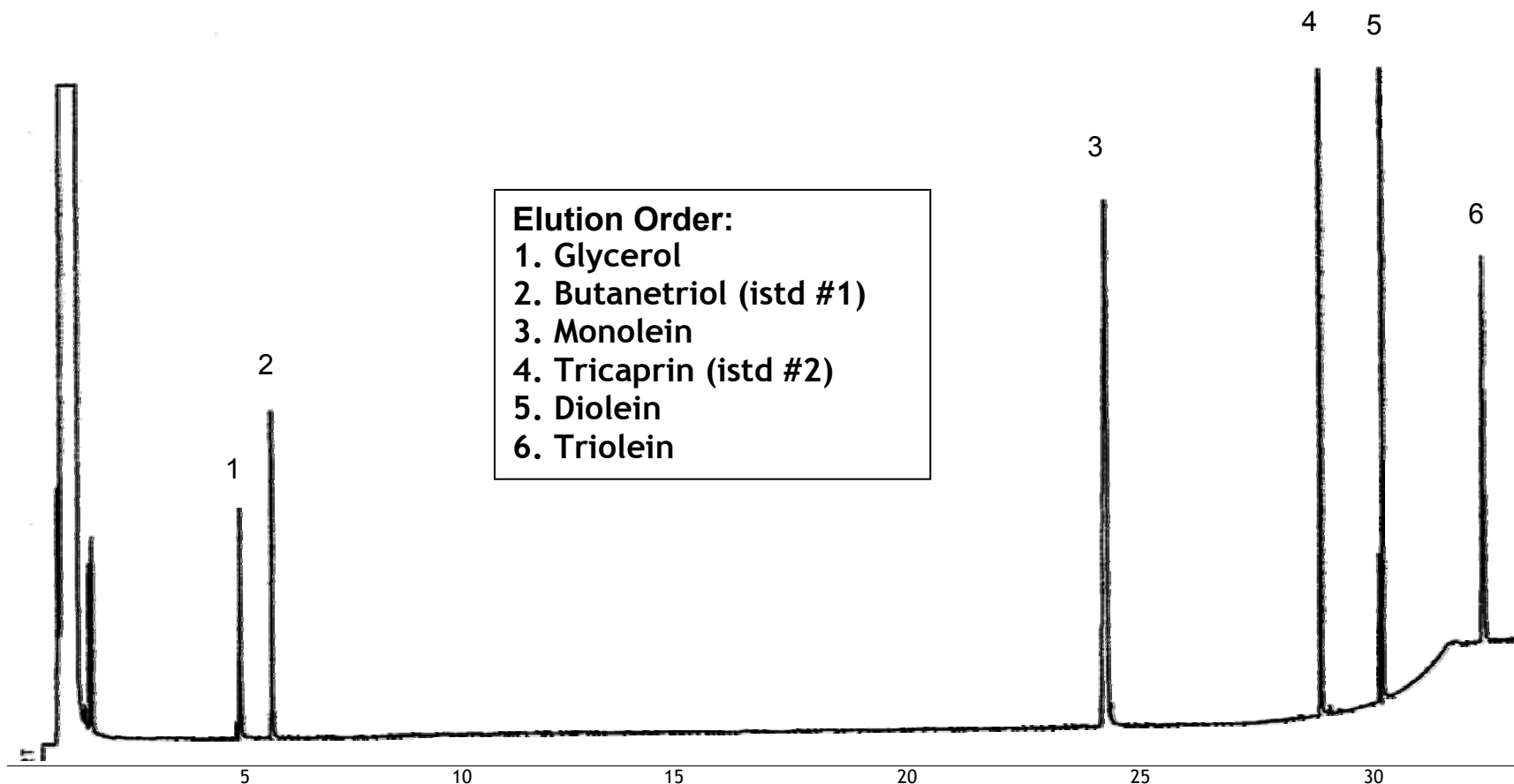


# BIODIESEL STANDARD BY HIGH TEMPERATURE GC

ASTM Method D6584-00 (2000): Test Method for the Determination of Free and Total Glycerin in B-100 Biodiesel Methyl Esters by Gas Chromatography



**COLUMN:** #400-5HT-10-0.1F, 5% Phenyl Methyl Silicone, 10M. x 0.23mm I.D. x 0.1 um film, AL-CLAD fused silica capillary column

Temperature: 50°C ( 1.0 min. hold ) - 15°C/min. to 180°C – 7°C/min. to 230°C - 30°C/min. to 380°C, hold 10 min.

Injector: cool on column injection, 1 microliter sample

Detector: FID, 380°C

Carrier Gas: Helium at 1.8 mL/min measured at 50°C column temp.

Carrier Make-up 23.4 ml/min, Hydrogen flow 28 mL/min, air flow about 350 mL/min.



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Chromatogram courtesy of James D. Stuart, Emeritus Professor, Analytical and Environmental Chemistry, University of Connecticut, Storrs, CT 06269-3060

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