Enantiomeric separation of two barbitals by gas chromatography with an Agilent CP-Cyclodextrin-B-2,3,6-M-19 column is achieved in 20 minutes.
**Conditions**

Technique: GC-capillary

Column: Agilent CP-Cyclodextrin-B-2,3,6-M-19, 0.25 mm x 25 m fused silica WCOT Cyclodextrin-B-2,3,6-M-19 (df = 25 μm) (Part no. CP7500)

Temperature: 210 °C isothermal

Carrier Gas: H₂, 60 kPa (0.6 bar, 8.6 psi)

Injector: Split, 100 mL/min

Detector: FID

T = 275 °C

Concentration Range: 0.2% in CH₃OH

**Peak identification**

1. hexobarbital
2. methylphenobarbital