

# APPLICATIONS

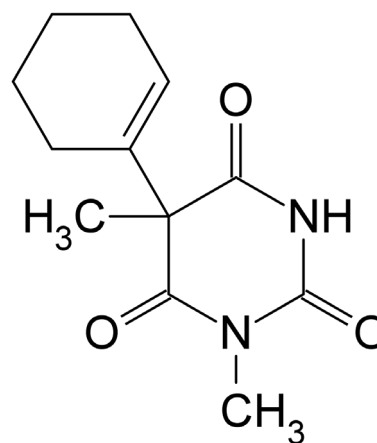
## Chiral SFC Separation of Hexobarbital using a Lux<sup>®</sup> 3 μm i-Amylose-1 Column

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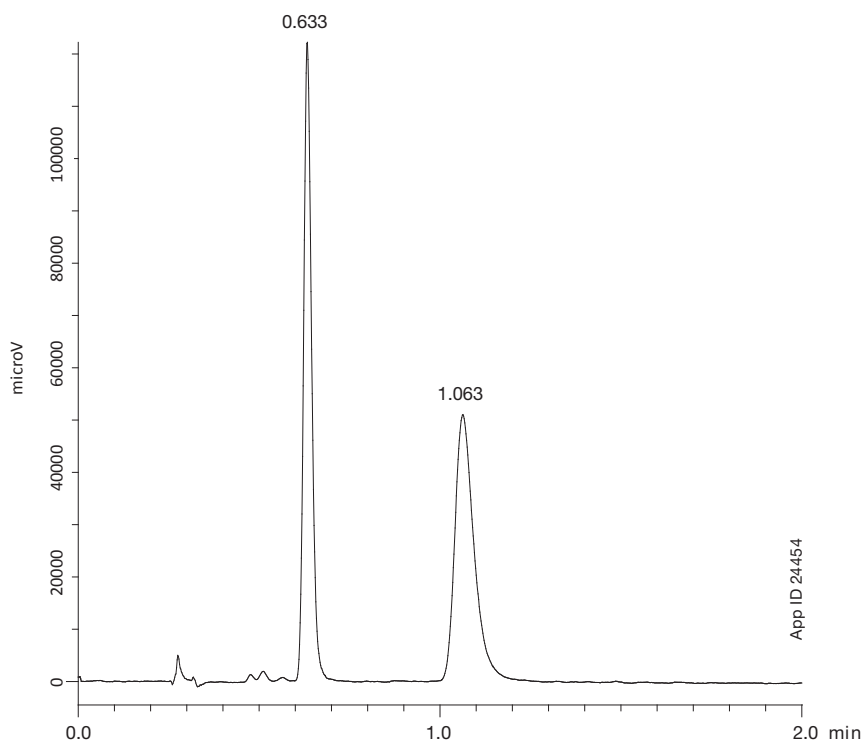
### Overview

Hexobarbital is a barbiturate derivative still being researched today. Having been around since the mid-19th century, Hexobarbital was used in the past as a general anesthetic and in medical facilities as a hypnotic for sedation. Given the past usage of Hexobarbital and its highly researched compound class, it is of vital importance to be able to properly evaluate its chemical and enantiomeric purity. Here we present a fast, robust, and versatile separation of Hexobarbital enantiomers on the robust Lux i-Amylose-1 stationary phase via SFC.

**Figure 1.**  
Chemical structure of Hexobarbital.



**Figure 2.**  
Representative chromatogram of the separation of Hexobarbital enantiomers.



### HPLC Conditions

**Column:** Lux 3 μm i-Amylose-1  
**Dimensions:** 150 x 3.0 mm  
**Part No:** 00F-4761-Y0  
**Mobile Phase:** CO<sub>2</sub>/Methanol (90:10)  
**Flow Rate:** 4 mL/min  
**Temperature:** 40 °C  
**Detection:** UV @ 220 nm  
**Sample:** Hexobarbital

