

## Product Information

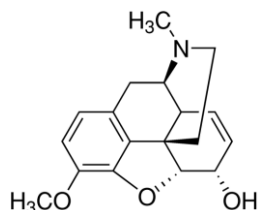
### Codeine solution

1.0 mg/mL±5% in methanol  
drug standard

Catalog Number **C1653**  
Lot Number SLBD4143V  
Storage Temperature 2–8 °C

CAS RN 76-57-3

Synonyms: (5 $\alpha$ , 6 $\alpha$ )-7,8-Didehydro-4,5-epoxy-3-methoxy-17-methylmorphinan-6-ol, Methymorphine, Morphine monomethyl ether



### Product Description

Molecular Formula: C<sub>18</sub>H<sub>21</sub>NO<sub>3</sub>

Molecular Weight: 299.36

DEA Class: Exempt preparation of Class II

Concentration: 0.97 mg of codeine/mL of GC grade methanol, concentration verified by UV.

Expiration Date: September 2015

### Precautions and Disclaimer

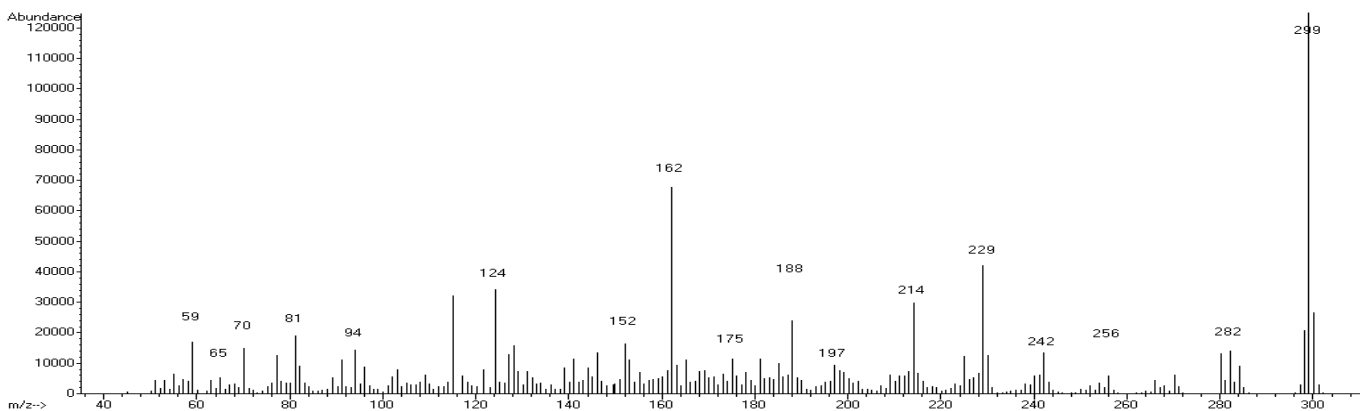
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

Store the product at 2–8 °C. If stored at 2–8 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 24 months. After opening, concentration may change due to loss of solvent.

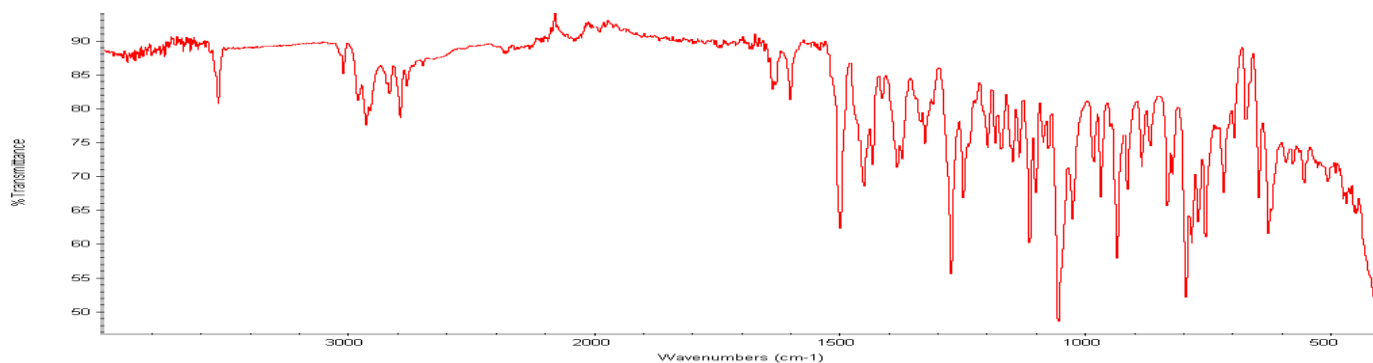
CMW,MAM 02/16-1

### 70 eV Electron Ionization Mass Spectrum



Hewlett-Packard 6890 Series II Gas Chromatograph  
Hewlett-Packard 5973 Mass Selective Detector  
Hewlett-Packard G1701DA MS ChemStation (HP-DOS series)

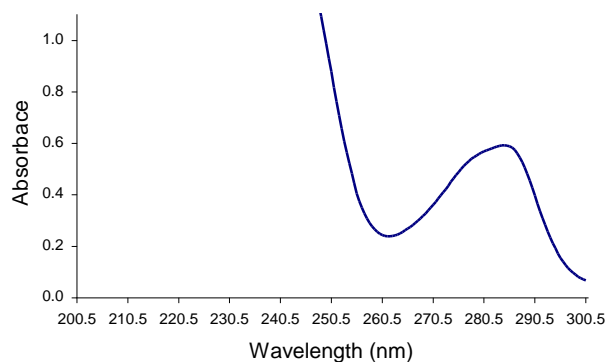
### FT-IR



Nicolet 380 FT-IR Thermo Smart Orbit

### Ultraviolet Spectrum

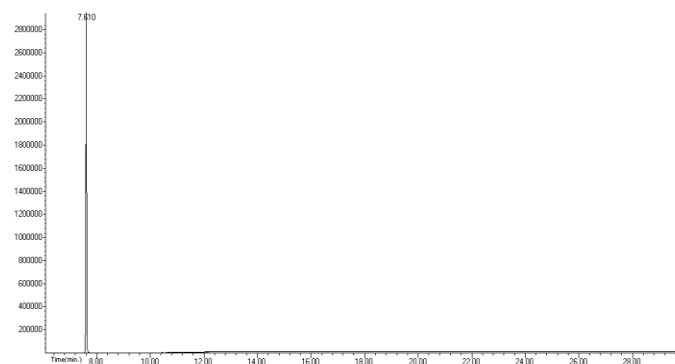
<b>Peak</b>	284.0 nm
<b>Absorbance</b>	0.5879
<b>Solvent</b>	0.2 N H <sub>2</sub> SO <sub>4</sub>
<b>Dilution</b>	1:9 (v/v)



Beckman-Coulter DU-800

### Capillary Gas Chromatography

**Column** Supelco SPB-1 (Catalog Number 24162)  
**I.D.** 0.20 mm **Length** 15 m **Film Thickness** 0.20 μm  
**Oven Temperature** 150 °C (2 minutes), then  
15 °C/minute to 300 °C, hold 18 minutes  
**Injector Temperature** 250 °C, Split  
**Detector** Hewlett-Packard 5973  
Mass Selective Detector (70 eV, 40-500 m/z)



Hewlett-Packard 6890