

## Product Information

### CODEINE-*d*<sub>3</sub> HYDROCHLORIDE

Methanol Solution

**Product Number** C 3672

**Lot Number** 21K8803

**CAS Number** [70420-71-2]

**Concentration** 110 µg Codeine-*d*<sub>3</sub> Hydrochloride (equivalent to 98.6 µg free base)/mL GC grade methanol (conc. corrected for water content and verified by UV)

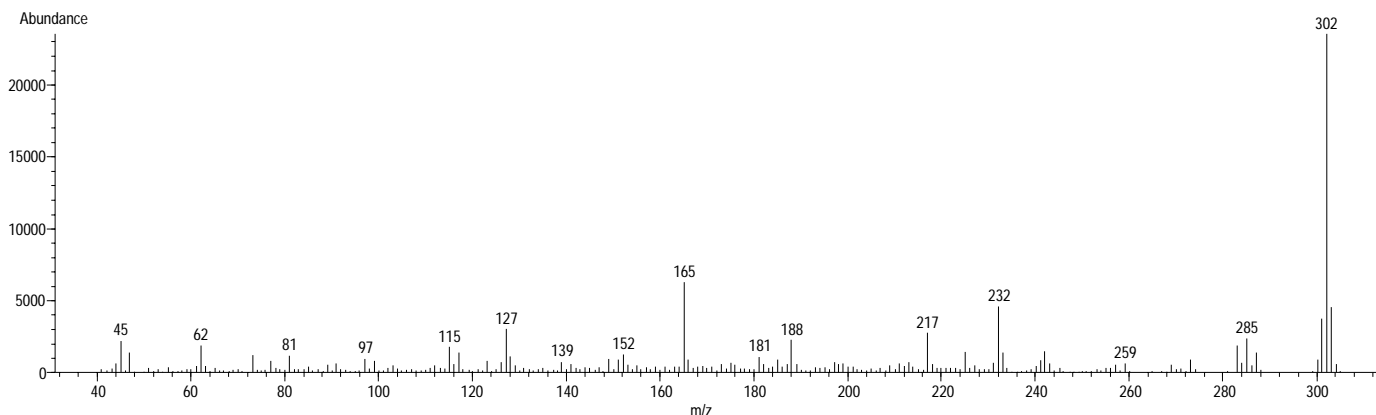
**Molecular Formula** C<sub>18</sub>H<sub>18</sub>D<sub>3</sub>NO<sub>3</sub> • HCl • 2H<sub>2</sub>O

**Synonyms** 7,8-Didehydro-4,5-epoxy-3-methoxy-17-[methyl-*d*<sub>3</sub>]morphinan-6-ol; 3-O-Methylmorphine(N-methyl-*d*<sub>3</sub>)

**Stability** If stored at 2-8°C in an air tight container, protected from light, decomposition of the product is less than 1% in 12 months. After opening, concentration may change due to loss of solvent.

**Expiration Date** October 2004

70 eV Electron Ionization Mass Spectrum



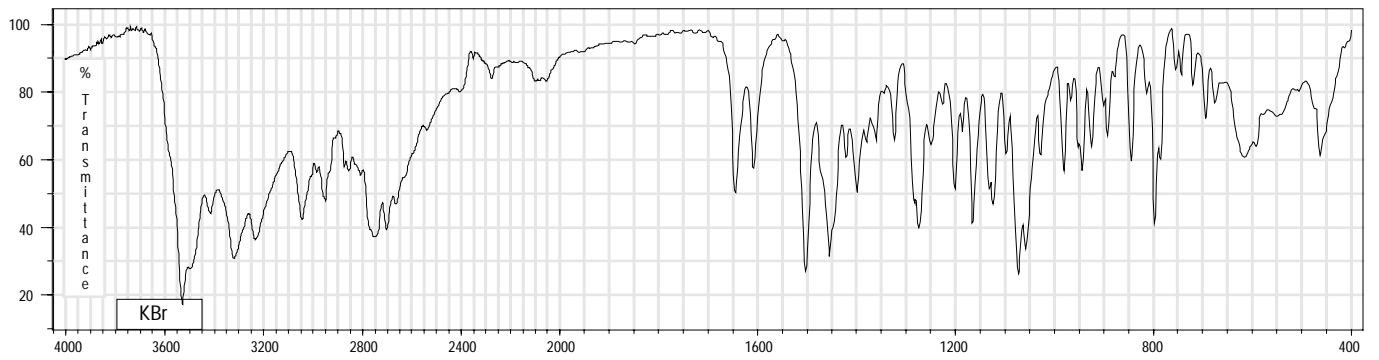
**Molecular Weight** 374.9

**DEA Class** Exempt preparation of Class II

**Storage**

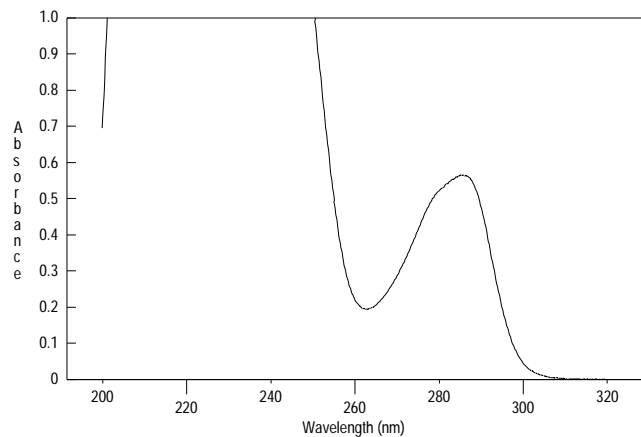
Hewlett-Packard 5890 Series II Gas Chromatograph  
Hewlett-Packard 5971 Mass Selective Detector  
Hewlett-Packard G1034C MS ChemStation (HP-DOS series) 2-8°C; Aft

FT-IR



### Ultraviolet Spectrum

**Peak** 285.8 nm  
**Absorbance** 0.565  
**Solvent** N.A.  
**Dilution** neat



### Capillary Gas Chromatography

**Column** Supelco SPB-1 (Cat. No. 2-4162)  
**I.D.** 0.20 mm **Length** 15 m **Film Thickness** 0.20  $\mu$ m  
**Oven Temperature** 150°C (2min.), then 15°/min to 300°C, hold 18 min.  
**Injector Temperature** 250°C, Splitless  
**Detector** Hewlett-Packard 5971  
Mass Selective Detector (70 eV, 40-500 m/z)

