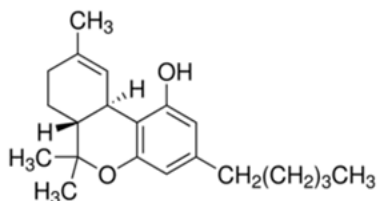


## Product Information

**$\Delta^9$ -Tetrahydrocannabinol solution**  
**1.0 mg/mL $\pm$ 5% in methanol**  
**analytical standard, for drug analysis**

Catalog Number **T4764**  
Lot Number SLBJ6701V  
Storage Temperature 2–8 °C

CAS RN 1972-08-3  
Synonyms:  $\Delta^1$ -Tetrahydrocannabinol, Tetrahydro-6,6,9-trimethyl-3-pentyl-6H-dibenzo[b,d]pyran-1-ol,  $\Delta^9$ -THC;  $\Delta^1$ -THC



**Product Description**  
Molecular Formula: C<sub>21</sub>H<sub>30</sub>O<sub>2</sub>  
Molecular Weight: 314.46

DEA Class: Exempt preparation of Class I

Concentration: 0.99 mg of  $\Delta^9$ -tetrahydrocannabinol/mL of GC grade methanol, concentration verified by HPLC.

Expiration Date: April 2017

### 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.

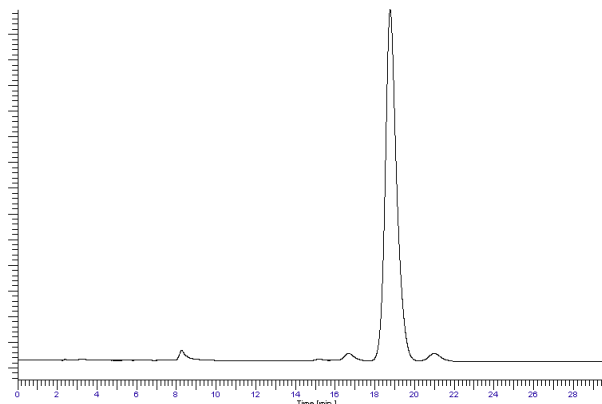
### Storage/Stability

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 04/14-1

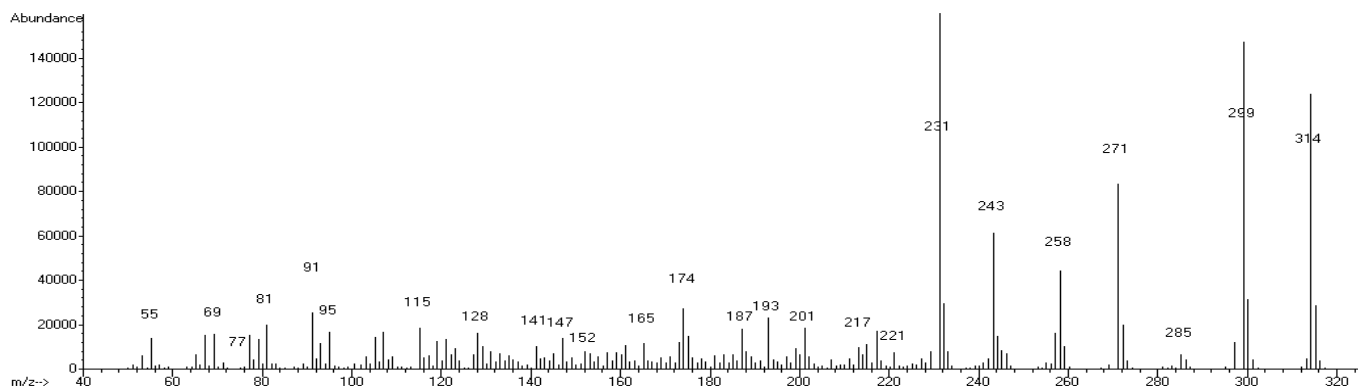
### High Pressure Liquid Chromatography

**Column:** Supelco Discovery C18, 5  $\mu$ m, 2.1  $\times$  250 mm  
**Mobile Phase:** 80% Methanol/ 20% Water (18 M $\Omega$   $\times$  cm)  
**Gradient:** Isocratic  
**Flow Rate:** 0.4 mL/min  
**Temp:** ambient  
**Detector:** UV at 210 nm



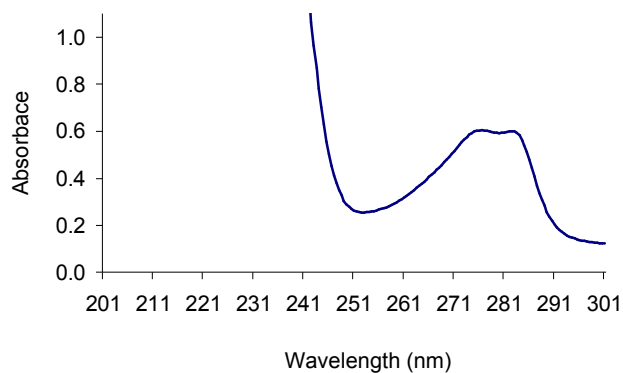
Perkin-Elmer Series 200 with Totalchrom w/s ver. 6.3.0.0445

### 70 eV Electron Ionization Mass Spectrum



### Ultraviolet Spectrum

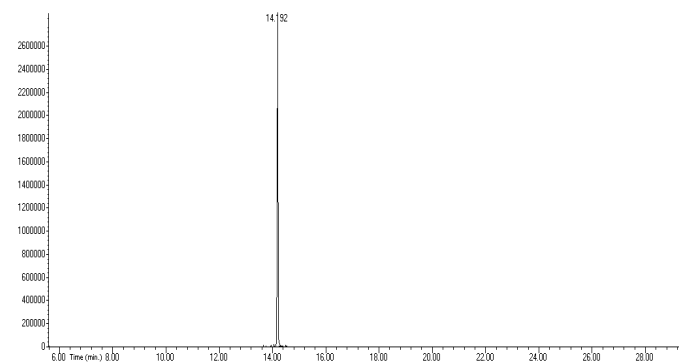
<b>Peak</b>	282 nm
<b>Absorbance</b>	0.6009
<b>Solvent</b>	Methanol
<b>Dilution</b>	1:9 (v/v)



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  $\mu\text{m}$   
**Oven Temperature** 50  $^{\circ}\text{C}$  (2 minutes), then  
15  $^{\circ}\text{C}/\text{minute}$  to 300  $^{\circ}\text{C}$ , hold 11 minutes  
**Injector Temperature** 250  $^{\circ}\text{C}$ , Split  
**Detector** Hewlett-Packard 5971  
Mass Selective Detector (70 eV, 40-500 m/z)



Hewlett-Packard 6890