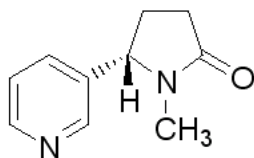


## Product Information

**(-)-Cotinine solution**  
**1.0 mg/mL±5% in methanol**  
**drug standard**

Catalog Number **C0430**  
Lot Number 061M8703V  
Storage Temperature 2–8 °C

CAS RN 486-56-6  
Synonyms: (S)-1-Methyl-5-(3-pyridyl)-2-pyrrolidinone,  
S(-)-1-Methyl-5-(3-pyridyl)-2-pyrrolidinone



**Product Description**  
Molecular Formula: C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O  
Molecular Weight: 176.22

DEA Class: Exempt preparation of a non-controlled substance

Concentration: 1.00 mg of (-)-cotinine/mL of GC grade methanol, concentration verified by UV.

Expiration Date: May 2014

### 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.

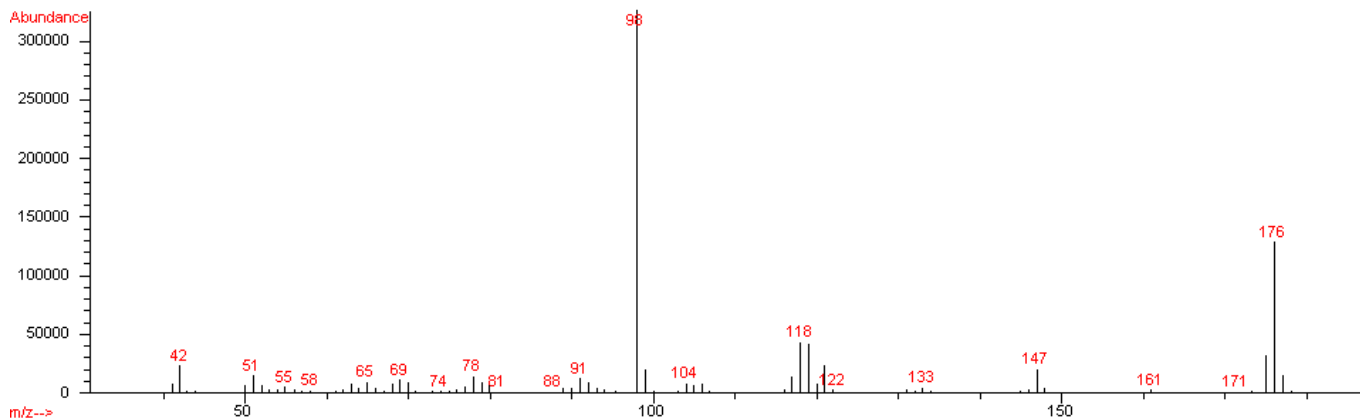
### Storage/Stability

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 12 months. After opening, concentration may change due to loss of solvent.

VY,CMW,MAM 01/16-1

### 70 eV Electron Ionization Mass Spectrum



Hewlett-Packard 5890 Series II Gas Chromatograph  
Hewlett-Packard 5971 Mass Selective Detector  
Hewlett-Packard G1034C MS ChemStation (HP-DOS series)

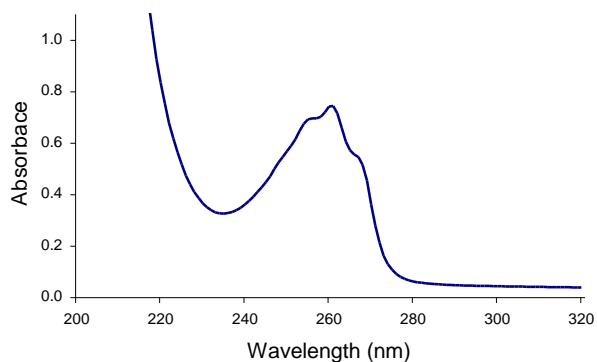
### FT-IR



Nicolet 380 FT-IR Thermo Smart Orbit

### Ultraviolet Spectrum

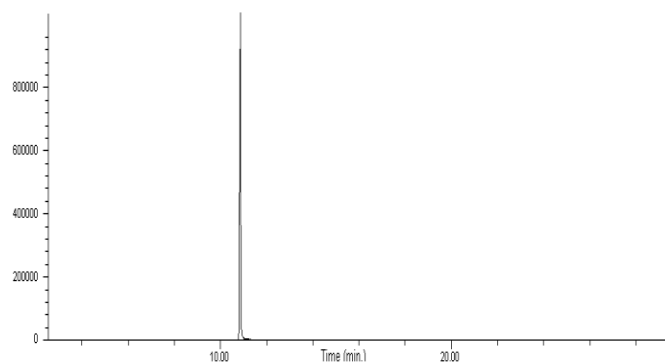
<b>Peak</b>	261.0 nm
<b>Absorbance</b>	0.7406
<b>Solvent</b>	GC grade methanol
<b>Dilution</b>	1:24 (v/v)



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 5890