

Product Information

Caffeine solution

1.0 mg/mL \pm 5% in methanol
analytical standard, for drug analysis

Catalog Number **C6035**

Lot Number 081M8704V

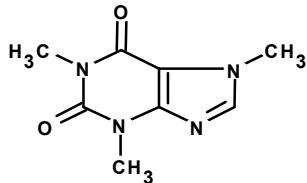
Storage Temperature 2–8 °C

CAS RN 58-08-2

Synonyms: Coffeinum; Guaranine; Methyltheobromine

Concentration: 0.97 mg of caffeine/mL of GC grade methanol (concentration verified by UV)

Expiration Date: May 2014

**Product Description**

Molecular Formula: C₈H₁₀N₄O₂
Molecular Weight: 194.19

DEA Class: Formulation of a non-controlled substance

Precautions and Disclaimer

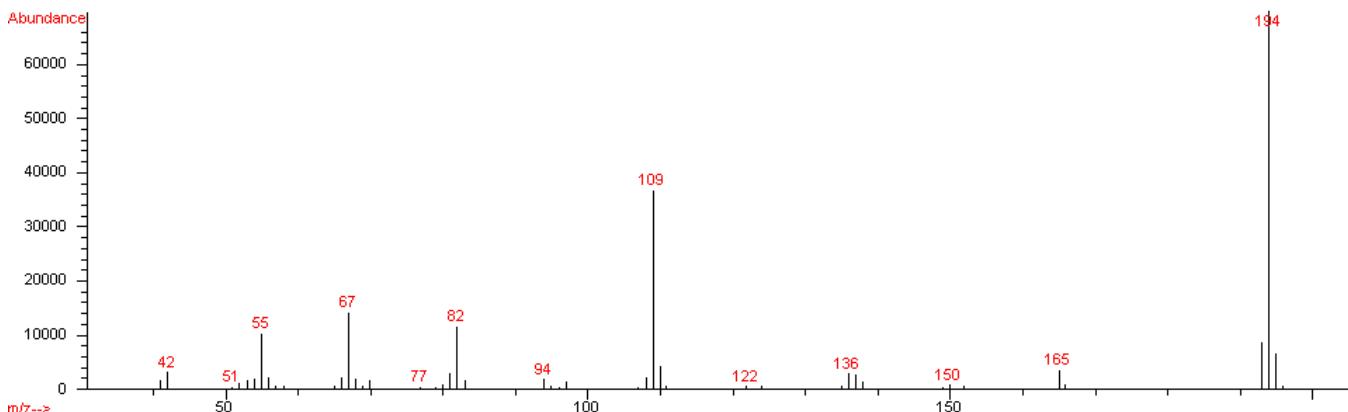
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product at 2–8 °C.

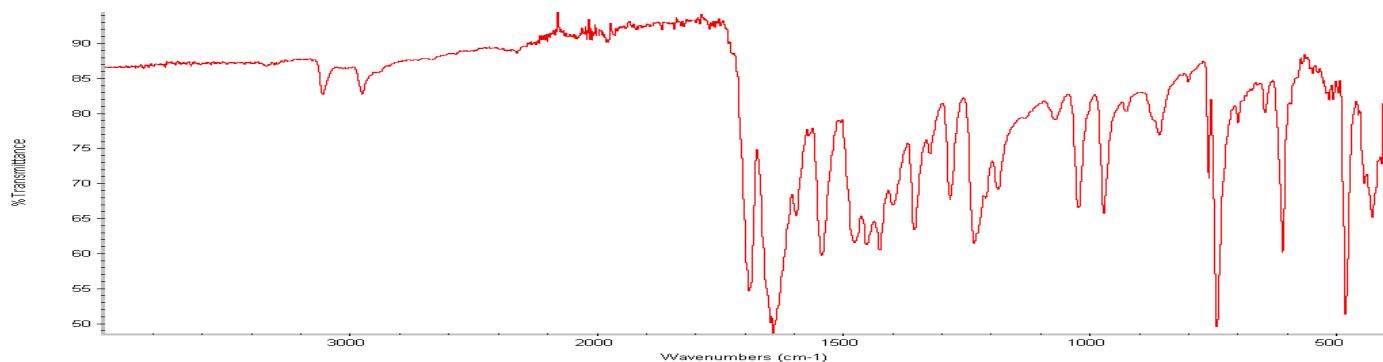
If stored at 2–8 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 48 months. After opening, concentration may change due to loss of solvent.

CMW,MAM 05/13-1

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)

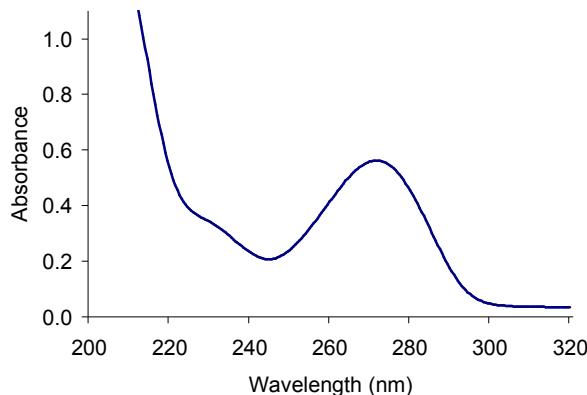
FT-IR



Nicolet 380 FT-IR Thermo Smart Orbit

Ultraviolet Spectrum

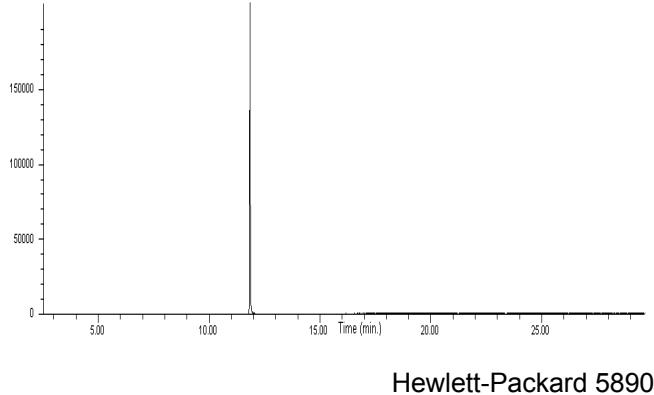
Peak	271.5 nm
Absorbance	0.5136
Solvent	0.2 N H_2SO_4
Dilution	1:100 (v/v)



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 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