

Product Information

Caffeine solution

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

Catalog Number **C6035**

Lot Number **SLBD4121V**

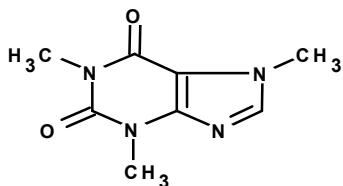
Storage Temperature **2–8 °C**

CAS RN **58-08-2**

Synonyms: Coffeignum, Guaranine, Methyltheobromine

Concentration: 1.00 mg Caffeine/mL GC grade methanol (concentration verified by UV)

Expiration Date: September 2015

**Product Description**

Molecular Formula: **C8H10N4O2**

Molecular Weight: **194.19**

DEA Class: Formulation of a non-controlled substance

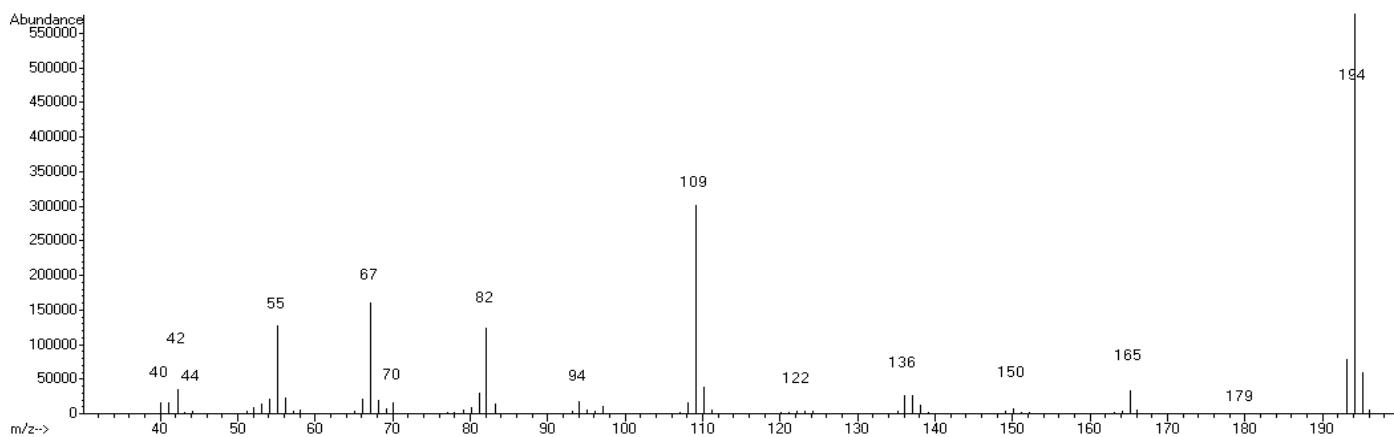
CMW,MAM 10/12-1

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.

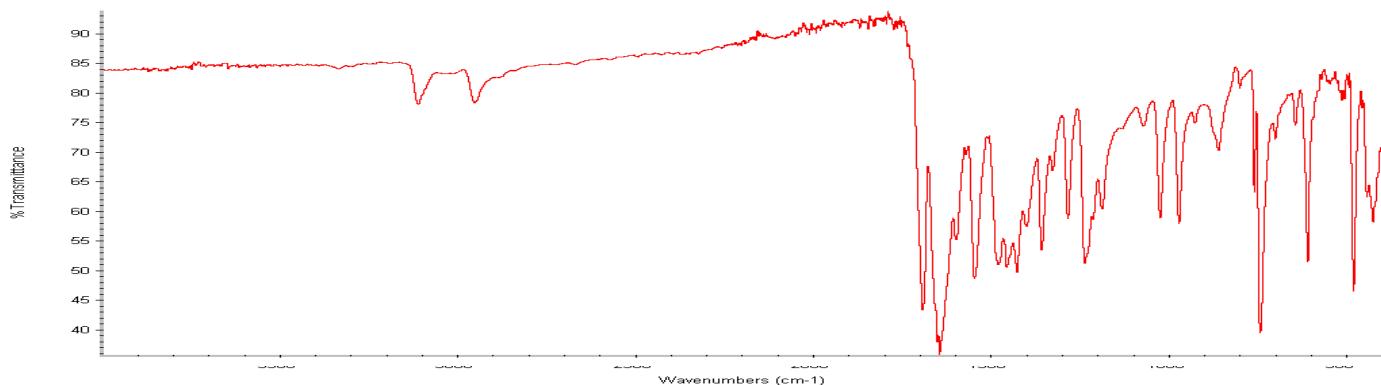
Storage/Stability

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.



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

FT-IR



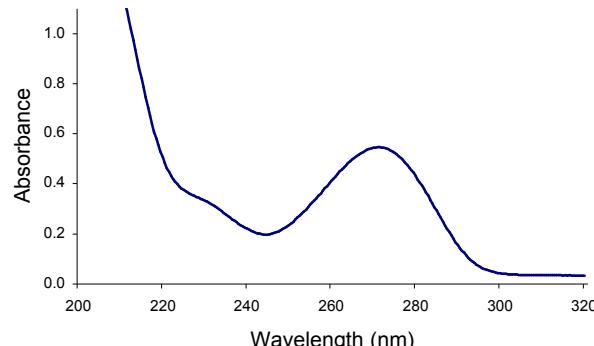
Nicolet 380 FT-IR with Thermo Smart Orbit attachment

Ultraviolet Spectrum

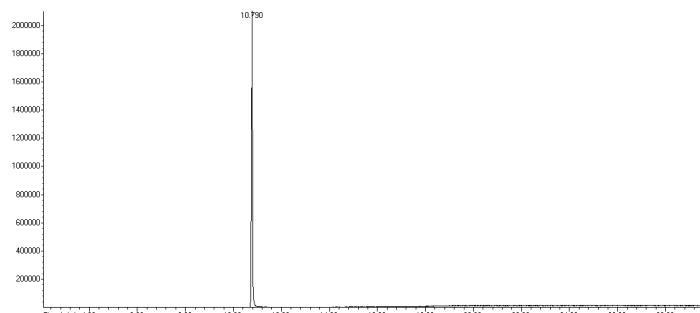
Peak	271.0 nm
Absorbance	0.5466
Solvent	0.2 N H ₂ SO ₄
Dilution	1:99 (v/v)

Capillary Gas Chromatography

Column Supelco SPB-1 (Catalog Number 24162)
I.D. 0.20 mm **Length** 15 m **Film Thickness** 0.20 μ m
Oven Temperature 50 °C (2 minutes), then
15 °C/minute to 300 °C, hold 11 minutes
Injector Temperature 250 °C, Split
Detector Hewlett-Packard 5973
Mass Selective Detector (70 eV, 40-500 m/z)



Beckman-Coulter DU 800



Hewlett-Packard 6890