Product Information

Cocaine hydrochloride solution
1.0 mg/mL±5% in methanol
drug standard

Catalog Number C1528
Lot Number 028K5011
Storage Temperature 2–8 °C

CAS RN 53-21-4
Synonyms: 3-(Benzoyloxy)-8-azabicyclo-[3.2.1]octane-2-caboxylic acid methyl ester hydrochloride; l-Cocaine hydrochloride; Ecgonine methyl ester bezoate hydrochloride; Benzoylmethylecgonine hydrochloride

Concentration: 1.13 mg Cocaine Hydrochloride (equivalent to 1.009 mg of free base)/mL of GC grade methanol (concentration verified by UV)

Expiration Date: December 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 24 months. After opening, concentration may change due to loss of solvent.

Product Description
Molecular Formula: C_{17}H_{21}NO_{4} - HCl
Molecular Weight: 339.81

DEA Class: Exempt preparation of Class II

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 Magna IR Spectrometer Series II

**Ultraviolet Spectrum**

- **Peak**: 234 nm
- **Absorbance**: 0.9071
- **Solvent**: 0.2 N H$_2$SO$_4$
- **Dilution**: 1:49 (v/v)

**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 °C (2 minutes), then 15 °C/minute to 300 °C, hold 11 minutes
- **Injector Temperature**: 250 °C, Split
- **Detector**: Hewlett-Packard 5971  
  Mass Selective Detector (70 eV, 40-500 m/z)

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