Product Information

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

Catalog Number C1528
Lot Number 109K87331
Storage Temperature 2–8 °C

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

Concentration: 1.11 mg of cocaine hydrochloride (equivalent to 0.993 mg of free base)/mL of GC grade methanol, concentration verified by UV.

Expiration Date: April 2016

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} \cdot 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 380 FT-IR Thermo Smart Orbit

Ultraviolet Spectrum

Peak  232.0 nm
Absorbance  0.9772
Solvent  0.2 N Sulfuric acid
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)

Beckman-Coulter DU 800

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