**Product Information**

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

Catalog Number **C1528**  
Lot Number 060M8700  
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: 1.13 mg of cocaine hydrochloride (equivalent to 1.01 mg of free base)/mL of GC grade methanol, concentration verified by UV.

Expiration Date: November 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**: 0.9766
- **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)

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