**Product Information**

**Cocaine hydrochloride solution**

1.0 mg/mL ± 5% in methanol

analytical standard for drug analysis

Catalog Number **C1528**
Lot Number **SLBR3649V**
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**

1.16 mg of cocaine hydrochloride (equivalent to 1.04 mg of free base)/mL of GC grade methanol, concentration verified by UV.

**Expiration Date**

July 2019

**Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the 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 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 Thermo Smart Orbit

Ultraviolet Spectrum

Peak: 232.5 nm
Absorbance: 1.008
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)

Shimadzu UV-1800
Hewlett-Packard 6890

©2016 Sigma-Aldrich Co. LLC. All rights reserved. SIGMA-ALDRICH is a trademark of Sigma-Aldrich Co. LLC, registered in the US and other countries. Sigma brand products are sold through Sigma-Aldrich, Inc. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see product information on the Sigma-Aldrich website at www.sigmaaldrich.com and/or on the reverse side of the invoice or packing slip.