**Product Information**

Heroin hydrochloride solution
100 µg/mL±5% in methanol
analytical standard, for drug analysis

Catalog Number **H5144**
Lot Number SLBR6044V
Storage Temperature –20 °C

CAS RN 1502-95-0
Synonyms: Diacetylmorphine Hydrochloride, Acetomorphine Hydrochloride, Diamorphine Hydrochloride

Concentration: 0.109 mg of heroin hydrochloride (equivalent to 0.0991 mg of free base)/mL of GC grade methanol (concentration verified by UV)

Expiration Date: September 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 –20 °C. If stored at –20 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 12 months. After opening, concentration may change due to loss of solvent.

**Product Description**
Molecular Formula: C$_{21}$H$_{23}$NO$_5$ · HCl
Molecular Weight: 405.87

DEA Class: Exempt preparation of Class I

**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)
Nicolet 380 FT-IR with Thermo Smart Orbit attachment

**Ultraviolet Spectrum**

- **Peak**: 280.5 nm
- **Absorbance**: 0.5807
- **Dilution**: Neat

**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 5973
  - Mass Selective Detector (70 eV, 40-500 m/z)

Beckman-Coulter DU 800

Hewlett-Packard 6890

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