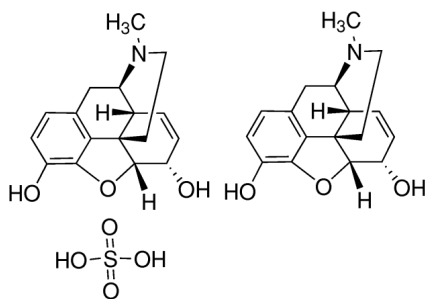


Product Information

Morphine sulfate salt solution
1.0 mg/mL±5% in methanol
drug standard

Catalog Number **M9524**
Lot Number SLBK9386V
Storage Temperature -20 °C

CAS RN 64-31-3
Synonym: (5 α , 6 α)-7,8-Didehydro-4,5-epoxy-
17-methylmorphinan-3,6-diol sulfate



Product Description

Molecular Formula: C₃₄H₃₈N₂O₆ · H₂SO₄
Molecular Weight: 668.75

DEA Class: Exempt preparation of Class II

Concentration: 1.17 mg morphine sulfate (equivalent to
1.00 mg of free base)/mL of GC grade methanol
(concentration verified by UV)

Expiration Date: March 2018

Precautions and Disclaimer

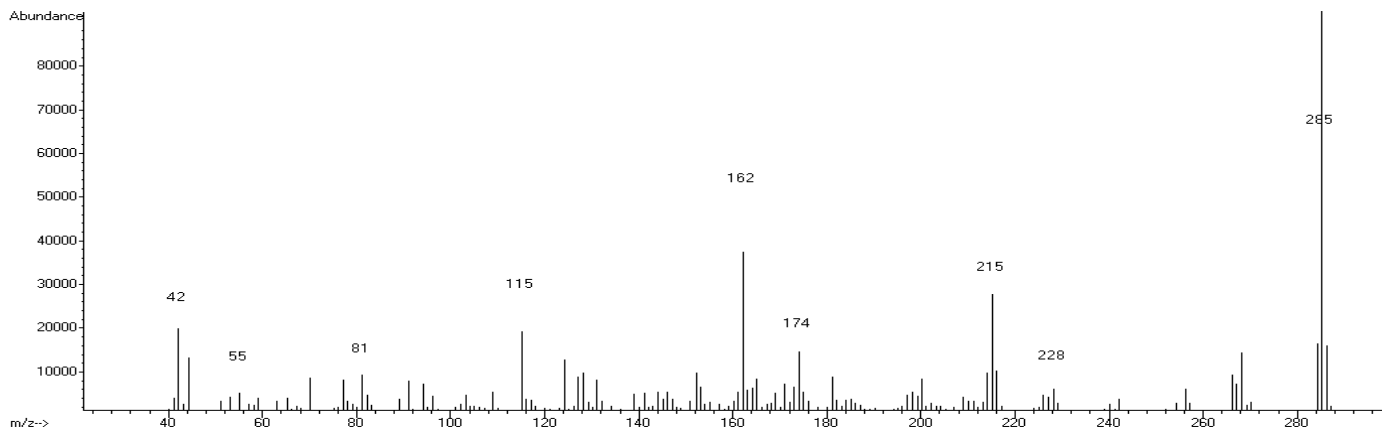
This product is for R&D use only, not for drug,
household, or other uses. Please consult the Safety
Data Sheet for information regarding hazards and safe
handling practices.

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 24 months. After
opening, concentration may change due to loss of
solvent.

CMW,MAM 03/15-1

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)

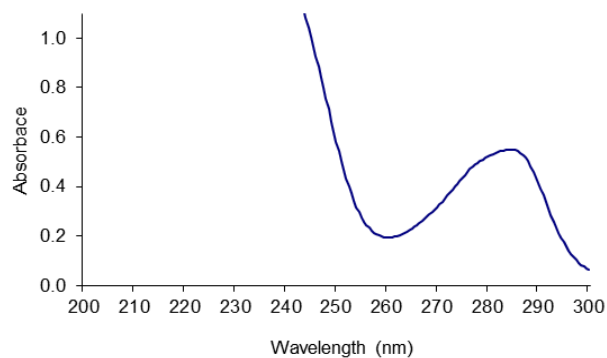
FT-IR



Nicolet 380 FT-IR with Thermo Smart Orbit attachment

Ultraviolet Spectrum

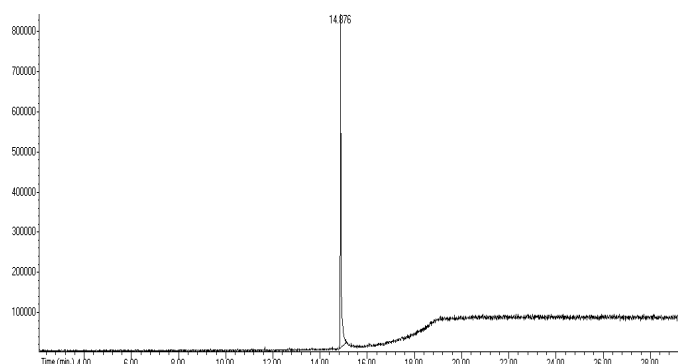
Peak	284.5 nm
Absorbance	0.5504
Solvent	0.2 N H ₂ SO ₄
Dilution	1:9 (v/v)



Beckman-Coulter DU 800

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, Splitless
Detector Hewlett-Packard 5973
Mass Selective Detector (70 eV, 40-500 m/z)



Hewlett-Packard 6890