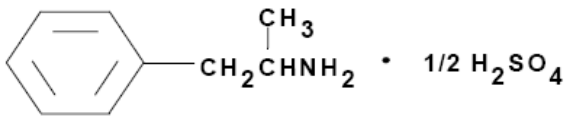
3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

D-Amphetamine hemisulfate salt solution
1.0 mg/mL±5% in methanol
analytical standard, for drug analysis

Catalog Number **A3278**
Lot Number SLBC3809V
Storage Temperature 2–8 °C

CAS RN 51-63-8
Synonyms: Dextroamphetamine hemisulfate salt; (+)-α-Methyphenethylamine hemisulfate salt; (+)-α-Methylbenzeneethaneamine hemisulfate; Phenyl-2-aminopropane hemisulfate; Phenaminum



Product Description
Molecular Formula: $C_9H_{13}N \cdot 0.5\ H_2SO_4$
Molecular Weight: 184.25

DEA Class: Exempt preparation of Class II

Concentration: 1.39 mg of D-amphetamine hemisulfate (equivalent to 1.02 mg of free base)/mL of GC grade methanol, concentration verified by UV.

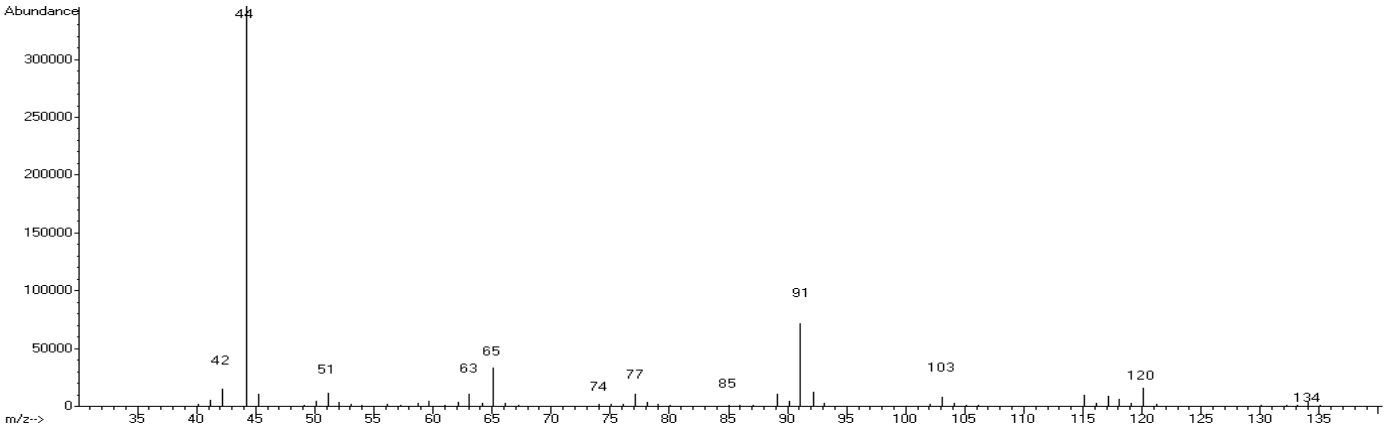
Expiration Date: June 2015

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

CMW,MAM 01/16-1

70 eV Electron Ionization Mass Spectrum



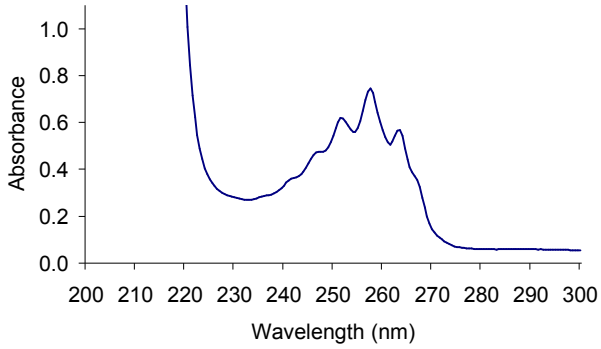
Hewlett-Packard 6890 Series II Gas Chromatograph
Hewlett-Packard 5973 Mass Selective Detector
Hewlett-Packard G1701DA MS ChemStation (HP-DOS series)

FT-IR

Nicolet 380 FT-IR Smart Orbit(ATR)

Ultraviolet Spectrum

Peak	257.5 nm
Absorbance	0.7457
Solvent	Methanol
Dilution	1:1 (v/v)

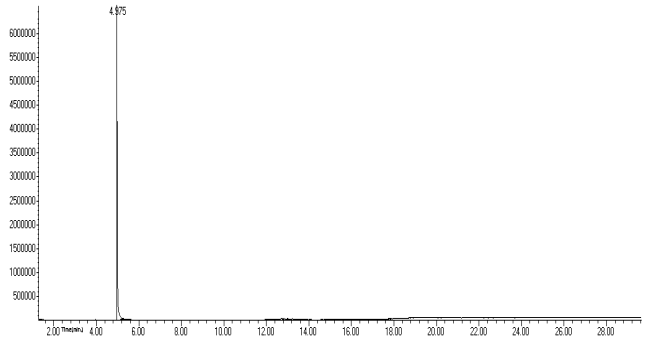


Beckman-Coulter DU 800

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)

Converted to free base for chromatography



Hewlett-Packard 6890