SIGMA-ALDRICH®

sigma-aldrich.com

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

Δ^9-Tetrahydrocannabinol solution
1.0 mg/mL±5% in methanol
analytical standard, for drug analysis

Catalog Number **T4764**
Lot Number 081M8701V
Storage Temperature 2–8 °C

CAS RN 1972-08-3
Synonyms: Δ^1-Tetrahydrocannabinol

Product Description
Molecular Formula: $C_{21}H_{30}O_2$
Molecular Weight: 314.46

DEA Class: Exempt preparation of Class I

Concentration: 0.95 mg of Δ^9-tetrahydrocannabinol/mL of GC grade methanol, concentration verified by HPLC.

Expiration Date: December 2014

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.

CMW,MAM 02/12-1

High Pressure Liquid Chromatography

Column Supelco Discovery C18, 5 µm, 2.1 × 250 mm
Mobile Phase 80% Methanol/20% Water (18 MΩ·cm)
Gradient Isocratic
Flow Rate 0.4 mL/min
Temperature ambient
Detector UV at 210 nm

Perkin-Elmer Series 200 with Totalchrom w/s ver. 6.3.0.0445

70 eV Electron Ionization Mass Spectrum

Ultraviolet Spectrum

Peak	282 nm
Absorbance	0.4972
Solvent	Methanol
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, Split
Detector Hewlett-Packard 5971
Mass Selective Detector (70 eV, 40-500 m/z)

Hewlett-Packard 6890

©2012 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.