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**

Testosterone solution
1.0 mg/mL±2% in 1,2-dimethoxyethane drug standard

Catalog Number **T5411**Lot Number SLBD4140V
Storage Temperature 2–8 °C

CAS RN 58-22-0

Synonyms:  $17\beta$ -Hydroxy-3-oxo-4-androstene, 4-Androsten- $17\beta$ -ol-3-one, *trans*-Testosterone,  $17\beta$ -Hydroxy-4-androsten-3-one

H<sub>3</sub>C OH

**Product Description** 

Molecular Formula: C<sub>19</sub>H<sub>28</sub>O<sub>2</sub> Molecular Weight: 288.42

DEA Class: Exempt preparation of Class III

Concentration: 1.00 mg of testosterone/mL of HPLC grade 1,2-dimethoxyethane, concentration verified by UV.

Expiration Date: September 2015

# **Precautions and Disclaimer**

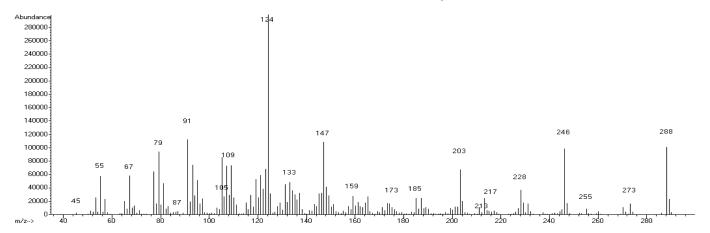
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

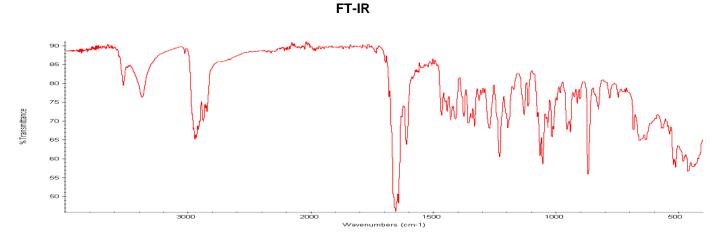
Store the product at 2-8 °C. If stored at 2-8 °C in an airtight container, protected from light, decomposition of the product is less than 1% in 12 months. After opening, concentration may change due to loss of solvent.

CMW, MAM 02/16-1

#### 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)



Nicolet 380 FT-IR Thermo Smart Orbit

#### **Ultraviolet Spectrum**

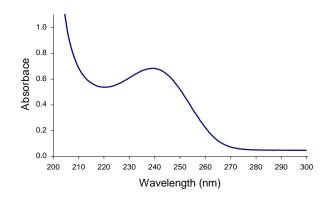
1:99(v/v)

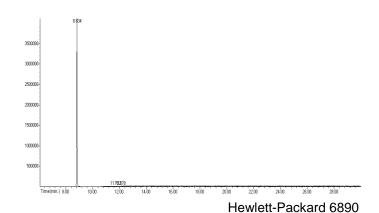
# Peak239.5 nmAbsorbance0.6793SolventMethanol

**Dilution** 

## **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 150 °C (2 minutes), then
15 °C/minute to 300 °C, hold 18 minutes
Injector Temperature 250 °C, Split
Detector Hewlett-Packard 5973
Mass Selective Detector (70 eV, 40-500 m/z)





Beckman-Coulter DU 800

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