Datasheet 17β-Trenbolone-D2

Reference number : EU/CRL: 59

Date of preparation : 1992.01.02

date : 17 January 2003

source : RIVM

“The Bank of Reference Standards”

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Name: 17ß-hydroxy-estra-4,9,11-trien-3-one-D_2
Synonym: 17ß-trenbolone-D_2
Molecular formula: C_{18}H_{20}D_{2}O_{2}
CAS #: not available
Molecular weight: 272.4
Indication of purity: > 95 %

Last update: 1998.01.06

Note: Ampoule is not stable enough for long term storage at a temperature > 0°C. Ampoule should be stored at a temperature < -15°C.

**Methods used for characterization:**

I Mass spectrometry
II HPLC-UV spectroscopy and UV-scan
III Homogeneity and stability obtained with GC-MS
I  MASS-SPECTROMETRY

Instrument: Hewlett Packard 5989A MS
MS spectrum, full scan

Mass spectrum (EI) of β-trenbolone-D2-mono-TMS (BSTFA + 1% TMCS)

Mass spectrum (EI) of β-trenbolone-D2-mono-HFB (HFBA/Acetone 1:4)
HPLC-UV of β-trenbolone-D2

UV-scan of β-trenbolone-D2
Instrument: Cary 3 UV-visible Spectrophotometer
### HOMOGENEITY AND STABILITY

**Stability Test β-TB-d2**

<table>
<thead>
<tr>
<th>Temp</th>
<th>t = 0 months</th>
<th>t = 1.5 months</th>
<th>t = 3.5 months</th>
<th>t = 6 months</th>
<th>t = 12 months</th>
<th>t = 24 months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>homogeneity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(n = 10)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>µg (m ± SD)</td>
<td>µg (m ± SD)</td>
<td>µg (m ± SD)</td>
<td>µg (m ± SD)</td>
<td>µg (m ± SD)</td>
<td>µg (m ± SD)</td>
<td>µg (m ± SD)</td>
</tr>
<tr>
<td>4°C</td>
<td>(84 +/- 4)</td>
<td>(*)</td>
<td>(72 +/- 6)</td>
<td>(113 +/- 9)</td>
<td>(68 +/- 1)</td>
<td>(47 +/- 1)</td>
</tr>
<tr>
<td>20°C</td>
<td>(75 +/- 1)</td>
<td>(*)</td>
<td>(98 +/- 1)</td>
<td>(63 +/- 1)</td>
<td>(43 +/- 1)</td>
<td></td>
</tr>
<tr>
<td>37°C</td>
<td>(65 +/- 1)</td>
<td>(*)</td>
<td>(91 +/- 4)</td>
<td>(49 +/- 6)</td>
<td>(34 +/- 1)</td>
<td></td>
</tr>
</tbody>
</table>

(*) no result, due to bad derivatization