Datasheet 17β-Testosterone-D2

Reference number : EU/CRL: 55

Date of preparation : 1992.10.21

date : 17 January, 2003

source : MSD

“The Bank of Reference Standards”

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Name : 17ß-hydroxy-4-androsten-3-one-D2
Synonym : 17ß-Testosterone-D2
Molecular formula : C_{19}H_{26}D_2O_2
Cas # : not available
Molecular weight : 290.4
Indication of purity: > 95 %

Last update : 1998.01.06

Methods used for characterization

I  IR spectroscopy
II  UV spectroscopy
III Mass spectrometry
IV Homogeneity and stability
I IR SPECTROSCOPY

![IR Spectroscopy Graph](image)

II UV SPECTROSCOPY

Instrument: Cary 3 UV-Visible Spectrophotometer.
Concentration 17β-testosterone-D2 = 0.098 mM; solvent: methanol
 \( \varepsilon_{241.0 \text{ nm}} = 15490 \)

![UV Spectroscopy Graph](image)
Mass spectrum (EI) of β-testosterone-D2 as mono-TMS derivative (BSTFA + 1% TMCS)

Mass spectrum (EI) of β-testosterone-D2 as di-HFB derivative (Aceton/HFBA (1:4))
### IV HOMOGENEITY AND STABILITY

<table>
<thead>
<tr>
<th>temp.</th>
<th>t = 0 months homogeneity (n=10) µg (m ± SD)</th>
<th>t = 1.5 months (n=2) µg (m ± SD)</th>
<th>t = 3 months (n=2) µg (m ± SD)</th>
<th>t = 6 months (n=2) µg (m ± SD)</th>
<th>t = 12 months (n=2) µg (m ± SD)</th>
<th>t = 24 months (n=2) µg (m ± SD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4°C</td>
<td>(103 +/- 10)</td>
<td>(86 +/- 2)</td>
<td>(101 +/- 2)</td>
<td>(74 +/- 10)</td>
<td>(100 +/- 10)</td>
<td>(83 +/- 13)</td>
</tr>
<tr>
<td>20°C</td>
<td></td>
<td>(82 +/- 2)</td>
<td>(95 +/- 4)</td>
<td>(69 +/- 1)</td>
<td>(100 +/- 7)</td>
<td>(94 +/- 3)</td>
</tr>
<tr>
<td>37°C</td>
<td></td>
<td>(79 +/- 1)</td>
<td>(87 +/- 6)</td>
<td>(71 +/- 5)</td>
<td>(100 +/- 7)</td>
<td>(93 +/- 3)</td>
</tr>
</tbody>
</table>

**Stability test Testosterone-d2**

![Stability graph](image-url)