Datasheet 17β-Trenbolone

Reference number : EU/CRL: 58

Date of preparation : 2002.06.19

date : 23 January 2006

source : NARL

“Bank of Reference Standards”
Molecular structure of 17β-trenbolone

Name : 17β-hydroxy-estra-4,9,11-trien-3-one  
Synonym : 17β-trenbolone  
Molecular formula : C₁₈H₂₂O₂  
CAS # : 10161-33-8  
Molecular weight : 270.4

Last update : 2004.09.03

Ampoules should be stored at a temperature < -20°C

Methods used for characterization:

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

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

Mass spectrum (EI) of 17β-trenbolone-mono-TMS (derivatized with BSTFA + 1% TMCS)

Mass spectrum (EI) of 17β-trenbolone-mono-HFB (derivatized with HFBA/acetone (1:4))
II HPLC-UV SPECTROSCOPY AND UV-SCAN

HPLC-UV of 17β-trenbolone

UV-scan of 17β-trenbolone
Instrument: Cary 3 UV-Visible Spectrophotometer.

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III IR-SPECTROSCOPY

Date of Measurement: 2003.04.02
Time of Measurement: 14:33:29
Sample Name: 17β-trenbolone
Sample Form: KBr
Resolution: 2
Instrument Type: IFS55
IV HOMOGENEITY AND STABILITY

The homogeneity of the ampoules was tested at random. All tested ampoules contained ±100 µg 17β-trenbolone.

During 5 weeks the stability of the ampoules was tested. The ampoules were stored at 3 different temperatures during 1, 2, 4 and 5 weeks and afterwards the concentration of 17β-trenbolone was measured. The results are given in the tables below.

<table>
<thead>
<tr>
<th>time (weeks)</th>
<th>temp. 4°C</th>
<th>temp. 20°C</th>
<th>temp. 37°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>94</td>
<td>94</td>
<td>94</td>
</tr>
<tr>
<td>1</td>
<td>83</td>
<td>78</td>
<td>71</td>
</tr>
<tr>
<td>2</td>
<td>79</td>
<td>75</td>
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<td>4</td>
<td>79</td>
<td>72</td>
<td>53</td>
</tr>
<tr>
<td>5</td>
<td>80</td>
<td>63</td>
<td>49</td>
</tr>
</tbody>
</table>

Stability of 17β-trenbolone