本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

#### 论文

人尿中脱氢睾酮代谢物的GC/MS分析

张霁;刘春胜;周同惠

中国医学科学院药物研究所分析室,北京100050

摘要:

本文用GC/MS方法,对人尿中脱氢睾酮(boldenone)代谢物进行了研究。志愿者口服20 mg脱氢睾酮后,收集阳性尿。尿样经过包括XAD-2树脂柱吸附、酶水解、有机相萃取及三甲基硅烷衍生化反应的预处理后,用毛细管气相色谱与质谱检测器联用进行分析,鉴定了脱氢睾酮的几个主要代谢物和它们的代谢模式;总结了兴奋剂检测中具有意义的代谢物及其碎片离子;对收集的阳性尿中脱氢睾酮浓度进行测定;对预处理方法的回收率进行了研究。

关键词: 脱氢睾酮 尿样分析 气相色谱质谱法

# GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC ANALYSIS OF BOLDENONE URINARY METABOLITES IN MAN

J Zhang; CS Liu and TH Zhou

#### Abstract:

The metabolism of boldenone (17 $\beta$ -hydroxy-1,4-androstem-3 -one) in man has been investigated by gas chromatography/mass spectrometry. After oral administration of a 20 mg dose to man, six metabolites were detected in the conjugated fraction of the urinary samples. Boldenone, the major compound excreted in urine, was detected within 34 h after administration. In addition , several metabolites, resulting from the hydroxylation of boldenone and the reduction of the unsaturated carbon bonds of boldenone, were detected in the urine samples varying from 9 to 83 h. Extraction and fractionation of these metabolites were achieved by using XAD- 2 column and gas chromatography. The recovery of the whole procedure was studied. Furthermore, the mass spectra of the metabolites are presented and major fragment pathways are discussed.

Keywords: Urine analysis, GC/MS Boldenone

收稿日期 1990-03-03 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

本刊中的类似文章

文章评论(请注意:本站实行文责自负,请不要发表与学术无关的内容!评论内容不代表本站观点.)

反 馈 人	邮箱地址	
反馈标	验证码	2406

## 扩展功能

# 本文信息

- ▶ Supporting info
- ▶ PDF(265KB)
- ▶ [HTML全文]
- ▶参考文献

## 服务与反馈

- ▶ 把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶引用本文
- Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

## 本文关键词相关文章

- ▶脱氢睾酮
- ▶尿样分析
- ▶ 气相色谱质谱法

## 本文作者相关文章

- ▶张霁
- ▶ 刘春胜
- ▶周同惠

# PubMed

- Article by
- Article by
- Article by

Copyright 2008 by 药学学报