质谱在石油化工、环境保护、产品质量等领域中的应用

SPME顶空衍生气质联用法检测头发中蛋白同化激素

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摘要

关键词

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Determination of Anabolic Steroids in Human Hair by Soli d-Phase Microextraction with Headspace Derivatization a nd Gas Chromatography Mass Spectrometry

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Abstract The method for extraction and determination of androsterone, 5α -androstane- 3α , 17β -diol, epiandrosterone and 5α -androstane- 3β , 17β -diol were developed by SPME with headspac e derivatization and GC/MS. It was applied to the simultaneous analysis of 4 anabolic steroids in the spiked human hair with the satisfactory accuracy and precision. The limits of detection (S/N=

3) for 4 anabolic steroids in spiked human hair are in the range of $0.027\text{-}0.150\mu g~L^{-1}$.

 Key words
 solid-phase
 microextraction
 derivatization
 gas
 chromatography
 mas

 s
 spectrometry
 anabolic
 steroids

DOI

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