

饲料中药物检测

猪尿中糖皮质激素类药物残留的UPLC-MS/MS检测方法的研究

班付国 贾振民 吴宁鹏 宋志超

河南省饲料产品质量监督检验站

摘要:

建立猪尿中9种糖皮质激素类药物残留的UPLC-MS/MS检测方法。样品在酸性条件下酶解后,乙酸乙酯提取,再用HLB固相萃取柱和氨基固相萃取柱净化后,用液相色谱-串联质谱测定。9种药物在2~100ng/mL浓度范围内呈线性相关,在空白猪尿中添加1~5 ng/mL浓度范围内,平均回收率为55.0%~106.2%,批内变异系数为3.0%~19.1%,批间为1.3%~15.4%,检测限为0.5 ng/mL,定量限为1.0 ng/mL。本方法具有较好的灵敏度、准确度和精密度,能满足猪尿中此类药物残留的检测。

关键词: 猪尿 糖皮质激素 UPLC-MS/MS

Determination of Glucocorticoids Residues in Pig Urine by UPLC-MS/MS

BAN Fu-guo|JIA Zhen-min|WU Ning-peng|SONG Zhi-chao

Henan Feed Quality Supervision and Testing Station|Zhengzhou 450008|China

Abstract:

A method for determination of glucocorticoids residues in pig urine by UPLC-MS/MS was developed.The samples were deconjugated with β-glucuronidase/ arylsulfatase enzyme,and extracted by ethyl acetate, followed by clean-up with a dual HLB and aminopropyl cartridge.The analytes were quantified by ultra-performance liquid chromatography/electrospray ionization tandem mass spectrometry(UPLC-MS/MS) operating in the negative ion mode.The assay for 9 glucocorticoids was linear over the range of 2~100 ng/mL with a h...

Keywords: pig urine glucocorticoids residues UPLC-MS/MS;

收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

作者Email:

参考文献:

本刊中的类似文章

文章评论

扩展功能

本文信息

- Supporting info
- PDF(267KB)
- [HTML全文]
- 参考文献[PDF]
- 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

- 猪尿 糖皮质激素 UPLC-MS/MS

本文作者相关文章

PubMed

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text" value="5077"/>

