

## 旗舰型离子色谱

 FEI COMPANY  
TOOLS FOR NANOTECH 岛津  
SHIMADZU

苏敏 新疆乌鲁木齐南湖北路116号新疆出入境检验检疫局技术中心 830063

李世雨 新疆乌鲁木齐南湖北路116号新疆出入境检验检疫局技术中心 830063

许宝香 新疆乌鲁木齐南湖北路116号新疆出入境检验检疫局技术中心 830063

等

**摘要：**建立动物肝脏中常见的10种磺胺类药物(磺胺胍、磺胺嘧啶、磺胺二甲嘧啶、磺胺甲氧哒嗪、磺胺间甲氧嘧啶、磺胺-5-甲氧嘧啶、磺胺氯哒嗪、磺胺甲恶唑、磺胺二甲氧嘧啶、磺胺喹恶啉)残留量液相色谱同时测定方法。样品通过溶剂提取净化、荧光胺柱前衍生化，用配有荧光检测器的高效液相色谱仪测定，外标法定量。其线性范围分别为2~200 $\mu$ g/L、4~400 $\mu$ g/L、10~1000 $\mu$ g/L，线性相关系数r>0.999；方法检出限(LOD)为2~10 $\mu$ g/kg；其中9种磺胺，在5~100 $\mu$ g/kg的3个添加水平范围内的平均回收率为70.6%~90.2%；相对标准偏差为4.1%~7.6%。

**关键词：** 磺胺, 动物肝脏, 荧光胺, 衍生化, 高效液相色谱-荧光检测器

文章全文为PDF格式，请下载到本机浏览。[\[下载全文\]](#)

如您没有PDF阅读器，请先下载PDF阅读器 [Acrobat Reader](#) [\[下载阅读器\]](#)

[Fluorescamine derivatization determination of 10 sulfonamide residues in animal liver by HPLC with fluorescence detector](#)

830063

830063

830063

**Abstract:** A HPLC method has been established for determination of 10 sulfonamide drug residues in animal liver, including sulfaquandine monohydrate, sulfadiazine, sulfadimidine, sulfamethoxypyridazine, sulfamonomethoxine, sulfamethoxydiazine, sulfachloropyridazine, sulfamethoxazole, sulfadimoxine, sulfاقىنوكالىن. The sample was treated with solvent extraction and pre-column derivatization with fluorescamine, then detected by HPLC-fluorescence detector. The quantitative method was external standard method. The linear ranges of 10 sulfonamides are 2~200 $\mu$ g/L, 4~400 $\mu$ g/L, 10~1000 $\mu$ g/L, and the linear correlation coefficient r>0.999. The limits of detection(LOD) for the method are 2~10 $\mu$ g /kg. In the ranges of 5~100 $\mu$ g/kg for 9 sulfonamides , the average recoveries are 70.6%~90.2%, the relative standard deviations are 4.1%~7.6%.

**Key words:** Sulfonamides, Animal Liver, Fluorescamine, Derivatization, HPLC-fluorescence detector

[【大 中 小】](#) [\[关闭窗口\]](#)