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济南市售肉制品中喹诺酮类兽药残留调查

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摘要:

目的 了解山东省济南市售肉制品中喹诺酮类(氧氟沙星、环丙沙星、恩诺沙星)兽药残留现状,为确保食品安全 提供相关信息。方法 随机选取济南市5个行政区内的10个采样区域,应用高效液相色谱法对270份样品中的兽药残 ▶把本文推荐给朋友 留情况进行检测,依据《动物性食品中兽药最高残留限量》进行评价。结果 检测的270份样品中,喹诺酮类兽药 检出率和超标率分别为28.15%和24.44%,检出范围为21.61~15 134.75 μq/kq; 猪肾、猪肝中喹诺酮类兽药超 标率分别为43.33%和27.50%,均高于猪肉的13.33%(P<0.05);鸡胗中喹诺酮类兽药超标率为35.29%,均高 于鸡肝的28.13%和鸡肉的9.76%(P<0.05);牛肉中喹诺酮类兽药超标率为27.50%,羊肉中未检出;喹诺酮类 兽药在超市与农贸市场中的超标率分别为27.34%和21.83%,两者差异无统计学意义(P>0.05);非品牌肉制品 中喹诺酮类兽药超标率为24.82%,与品牌肉制品的24.06%比较,差异无统计学意义(P>0.05)。结论济南市 售肉制品中有不同程度的喹诺酮类兽药残留。

关键词: 喹诺酮类 兽药残留 肉制品 市场调查

Residues of quinolones in meat products sold in Ji' nan city

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Abstract:

Objective To detect the residues of quinolones (ofloxacin, ciprofloxacin, enrofloxacin) in meat products commercially available in Ji'nan, Shandong province and to provide relevant information to ensure food safety. Methods A total of 270 samples were collected randomly from 10 areas in 5 administrative districts of Ji'nan city and quinolenes residues in the samples were analyzed with high performance liquid chromatography (HPLC). The measurement Results were assessed according to Maximum Residue Levels(MRLs) of Veterinary Drugs in Animal Foods. Results For the 270 samples, the guinolones detection rate was 28.15% and the exceeding standard rate was 24.44%, with a concentration range from 21.61 to 15 134.75 μg/kg. The exceeding standard rates of guinolones for pig kidneys and livers were 43.33% and β Article by 27.50%, which were higher than that for pork(13.33%)(P<0.05). The exceeding standard rate for chicken gizzards was 35.29%, which was higher than that for liver(28.13%) and chicken meat(9.76%) (P<0.05). The exceeding standard rate in beef was 27.50% and no residue was detected in mutton. The exceeding standard rates for samples from supermarkets and farmer's markets were 27.34% and 21.83%, without significant difference (P>0.05). The exceeding standard rate for non-brand meat was 24.82% and 24.06% for brand meat, without significant difference (P>0.05). Conclusion There are different levels of guinolones residues in meat products sold in Ji'nan city.

Keywords: quinolones residue of veterinary drug meat product market survey

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参考文献:

- [1] 张秋萍, 李建, 王春民.苏州市水产品中喹诺酮类抗生素残留水平及安全性评价[J].中国卫生检验杂志, 2012, 22 (10): 2417-2422.
- [2] Cho HJ, Yi H, Cho SM, et al. Single-step extraction followed by LC for determination of (fluoro) quinolone drug residues in muscle, eggs, and milk[J]. J Sep Sci, 2010, 33:1034-1043.
- [3] Stahlmann R.Clinical toxicological aspects of fluoroquinolones[J]. Toxicology Letters, 2002, 127: 269-277.
- [4] 农业部.动物性食品中兽药残留限量[Z].农业部2002年235号公告, 2002-12-24.
- [5] Varma R, Ahmad AH, Sharma LD, et al. Pharmacokinetics of enrofloxacin and its active metabolite ciprofloxacin in cows following single dose intravenous administration[J]. J Vet Pharmacol Therap, 2003, 26:303-305.
- [6] Rao GS, Ramesh S, Ahmad AH. Disposition kinetics of enrofloxacin and ciprofloxacin following intravenous administration of enrofloxacin in goats[J]. Small Ruminant Research, 2002, 44:9-15.
- [7] 李剑勇, 鲁润华.动物用氟喹诺酮类药物的研究进展概况[J].中兽医医科杂志, 2004(6):19-23.
- [8] 邱银生. 喹诺酮类药物在动物组织中的残留[J]. 中国兽药杂志, 1996, 30(1): 46-49.
- [9] 王蓓, 徐金水, 于红, 等.解脲脲原体对氟喹诺酮类药物耐药性研究[J].中国公共卫生, 2007, 23(4):435-436. 本刊中的类似文章
- 1. 孙国良.霸州市2008年餐饮业熟肉制品检测结果分析[J]. 中国公共卫生, 2009,25(11): 1351-1351
- 2. 袁超, 霍江华, 杨咸枝, 林娜, 赵瑞芳, 王舒然.黑龙江省动植物性食品农兽药使用情况调查[J]. 中国公共卫生, 2009,25(5): 614-615
- 3. 孟庆义, 高秀媛.北京市宣武区2002~2006年食品监测结果分析[J]. 中国公共卫生, 2008, 24(11): 1387-1387
- 4. 林奕芝, 张世英, 梁伟, 刘奋, 司徒潮满, 戴京晶.HPLC法同时测定肉与肉制品中沙丁胺醇和8种雌激素残留量[J]. 中国公共卫生, 2002,18(12): 1499-1502
- 5. 鹿文婷, 刘萍, 焦海涛, 乔梦, 任晓菲.济南市售肉制品中喹诺酮类兽药残留调查[J]. 中国公共卫生, 0,(): 0-0
- 6. 曹艺耀, 许崇德, 刘萍, 鹿文婷, 焦海涛.动物性食品中喹诺酮类抗生素残留测定[J]. 中国公共卫生, 2013,0(0): 0-0
- 7. 曹艺耀, 许崇德, 刘萍, 鹿文婷, 焦海涛.动物性食品中喹诺酮类抗生素残留测定[J]. 中国公共卫生, 2013,29 (10): 1450-1452

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