

食品安全检测

超高效液相色谱-串联质谱法测定动物源性食品中性激素多组分残留

王全林; 张爱之

宁波市产品质量监督检验所, 浙江 宁波 315041

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摘要

关键词

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Simultaneous Determination of Seven Sex Hormone in Animal Products by UPLC-MS/MS

WANG Quan-lin, ZHANG Ai-zhi

Ningbo Academy of Product Quality Supervision & Inspection, Ningbo 315041, China

Abstract A rapid, specific and highly sensitive method for the simultaneous determination of seven sex hormones residue in animal product was developed, which was based on UPLC-MS/MS under positive mode using electrospray ionization(ESI) source. $ZnCl_2$ was added to the extract solution to remove fat, and then target compounds were purified by LC- C_{18} and LC- NH_2 solid phase extraction cartridge. Average recoveries for the seven sex hormone(spiked at the levels of $4 \mu g kg^{-1}$ in fish product) range from 88% to 105%, with relative standard deviations between 4.3% and 24%.

Key words simultaneous determination hormone residues animal products UPLC-MS/MS

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